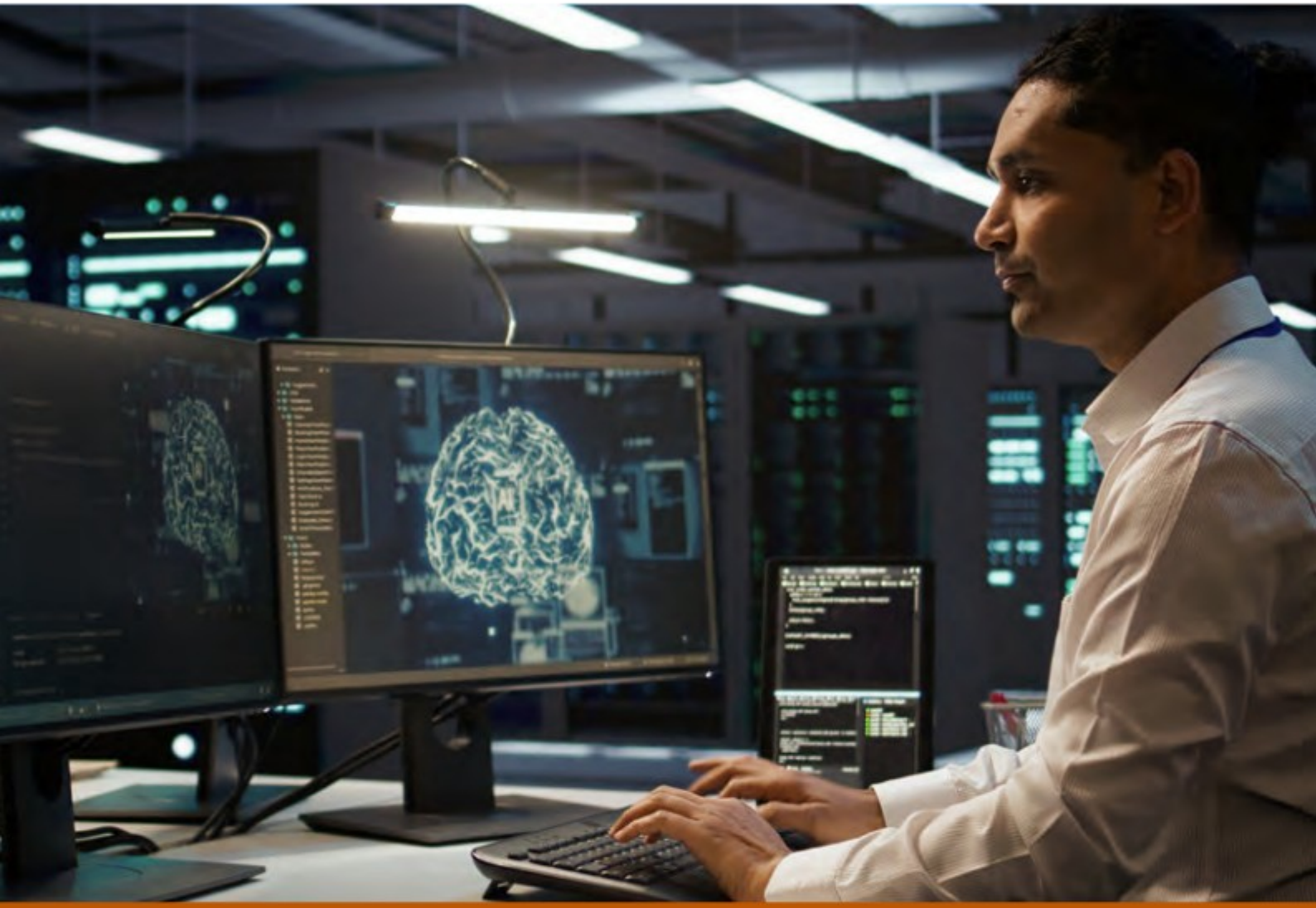
The University of Texas at Austin
McCombs School of Business

GREAT LAKES EXECUTIVE LEARNING

Great Learning



POST GRADUATE PROGRAM IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

12 Months | Live Mentorship by Industry Experts | 11+ Projects and a Capstone Project

New Learning Modules Added: MLOps, Multimodal and Advanced GenAI

27+ Languages and Tools Covered

python | learn | ChatGPT | TensorFlow | NumPy | Keras | pandas | Hugging Face

ABOUT THE McCOMBS SCHOOL OF BUSINESS AT THE UNIVERSITY OF TEXAS AT AUSTIN

A highly ranked, world-renowned institution at the intersection of innovation, research, and leadership, the McCombs School of Business offers transformative business education designed to equip professionals for real-world impact. Through groundbreaking research and discovery, the school helps leaders prepare for tomorrow's opportunities. Technology programs from the McCombs School of Business are grounded in the University's ongoing research on applying technology and Data Science to pressing business challenges across industries.

#7 Public University in the U.S.
U.S. News & World Report, 2024

#4 in MS - Business Analytics
QS World University rankings, 2023

#6 in Executive Education - Custom Programs
Financial Times, 2022

#7 Business Analytics (In USA)
U.S News & World Report, 2022

ABOUT GREAT LAKES EXECUTIVE LEARNING

Great Lakes Executive Learning is the executive education arm of Great Lakes Institute of Management, one of India's top-ranked business schools with campuses in Chennai and Gurgaon. Guided by distinguished faculty and an eminent advisory council, it offers industry-relevant programs that are especially acclaimed in Data Science and analytics, consistently ranked among the best in the country. Great Lakes Executive Learning equips professionals with the skills and mindset to lead in today's digital, data-driven economy.

4th Top Standalone Institution
By Outlook India

4th Private B-Schools
By Careers360

5th Non-IIM/IIT Institute
NIRF

A LEGACY OF EMPOWERING AI-DRIVEN EXCELLENCE

The Post Graduate Program in Artificial Intelligence and Machine Learning has enabled professionals to succeed in the AI-driven era for over 8 years, well before it became mainstream.

500+
Batches

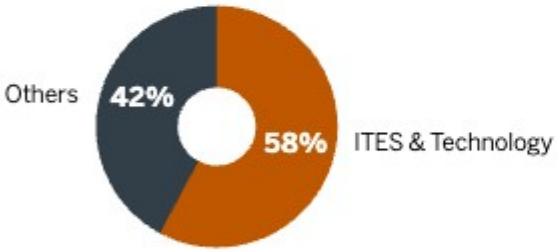
3.5 / 4
Program Rating

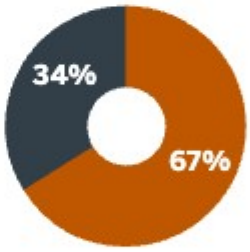
4.8 / 5
Average Session Rating

97%
Learner Satisfaction

LEARN ALONGSIDE DIVERSE PEERS

Our cohorts include individuals from high-growth roles and industries, fostering a collaborative and goal-oriented learning environment. As part of the program, you can engage with professionals from diverse backgrounds, including engineering, IT, product, operations, and data, at various career stages across different industries.





67% learners are mid to senior-level professionals looking to deepen their AIML expertise

PROGRAM ALUMNI FROM TOP COMPANIES

Microsoft, salesforce, Adobe, amazon, TCS, accenture, Cognizant, wipro, JPMorgan Chase & Co.
VISA, Wells Fargo, HSBC, Deloitte., EY, KPMG, pwc, TATA MOTORS, SIEMENS
AIRBUS, JINDAL STEEL & POWER, PEPSICO, Uber, FedEx, AIR INDIA, Gartner

15% of our alumni have transitioned into senior leadership roles.

"AI and ML are game-changing skills driving modern professional success. Our collaboration with Great Learning delivers a rigorous, application-driven program designed to help professionals lead with insight, innovation, and impact."

Dr. Kumar Muthuraman

Faculty Director, Center for Analytics and Transformative Technologies, McCombs School of Business, The University of Texas at Austin

GAIN THE SKILLS REQUIRED FOR AN AI-DRIVEN WORLD WITH THE PGP-AIML

According to the Upskilling Trends Report 2025, an annual research study conducted by Great Learning, Artificial Intelligence and Machine Learning have emerged as the most in-demand skills in today's workforce. 73% of professionals across domains report that AI is already impacting their roles. This signals a new reality where professionals at every stage of their careers must now leverage AI to stay relevant and competitive in their workplace.

The 12-month Post Graduate Program in Artificial Intelligence and Machine Learning equips professionals with the knowledge, tools, and real-world skills to thrive in this AI-driven landscape. Designed in collaboration with top industry experts and leading academicians from The University of Texas at Austin and Great Lakes Executive Learning, the program blends academic depth with hands-on application.

Program Rating: 3.5 / 4

The program's rating is a reflection of its distinguished academic rigor, expert industry mentorship, immersive hands-on projects, and comprehensive learning support.

PROGRAM HIGHLIGHTS

Learn From UT Austin And Great Lakes Faculty

Experience world-class learning with a program thoughtfully designed and delivered by renowned faculty from UT Austin and Great Lakes. Gain cutting-edge skills, deployable insights, and the confidence to lead transformative change in the age of AI.

Build Expertise In The Latest AI Technologies

Become adept at the latest AI technologies, including Deep Learning, Computer Vision, NLP, Reinforcement Learning, Neural Networks, MLOps, Generative AI, and many more.

Master Industry-Relevant Tools And Libraries

Gain practical experience with the most in-demand tools and libraries across the Artificial Intelligence stack - from Python, SQL, and Docker to cutting-edge frameworks like TensorFlow, Transformers, LangChain, and ChatGPT.

Work On Hands-On Projects

Go beyond theoretical learning with 11 hands-on projects and 1 Capstone Project. The program also includes 60+ case studies from different industry verticals to reinforce conceptual and practical understanding.

Create A Compelling Github Profile

Boost your visibility to potential recruiters. As part of this program, learners make project submissions on GitHub, an online repository that stores all the projects and assignments in a single place. Companies today look at potential recruits' GitHub profiles to check their technical expertise before hiring them.

Earn Recognized Credentials

Upon successful completion of the program, learners are awarded dual certificates from the prestigious University of Texas at Austin and Great Lakes Executive Learning.

"I had a very good experience with Great Learning. The recorded videos covered topics in minute detail, and the projects focused on the concepts covered in these lectures. This is how we got a great hands-on experience with all topics. The mentor was very supportive and helped me clear all my doubts every single time."

Arbaz Pathan
Senior Analyst, Data Science - Tiger Analytics

LEARN FROM WORLD-RENOWNED PROGRAM FACULTY

With 100+ years of collective experience in academic leadership, research, and industry application, our faculty have published award-winning papers and made significant contributions to the application of Artificial Intelligence and Machine Learning in business.

Dr. Kumar Muthuraman is an H. Timothy (Tim) Harkins Centennial Professor in the Department of Information, Risk and Operations Management and the Department of Finance at McCombs School of Business, The University of Texas at Austin. In addition, he serves as the Faculty Director at the Center for Analytics and Transformative Technologies.

Before joining the faculty at UT Austin, Dr. Kumar was an assistant professor at Purdue University and a graduate research assistant at Stanford University. He received his Ph.D. and M.S. in Scientific Computing and Computational Mathematics from Stanford University. His research focuses on decision-making under uncertainty in areas such as finance, risk management, operations, healthcare, and energy.

Dr. Abhinanda Sarkar holds B.Stat. and M.Stat. degrees from the Indian Statistical Institute (ISI) and a Ph.D. in Statistics from Stanford University. He was a lecturer at the Massachusetts Institute of Technology (MIT) and a research staff member at IBM. Subsequently, he spent a decade at General Electric (GE). He has provided committee service for the University Grants Commission (UGC) of the Government of India, for infoDev – a World Bank program, and for the National Association of Software and Services Companies (NASSCOM).

He is a recipient of the ISI Alumni Association Medal, an IBM Invention Achievement Award, and the Radhakrishan Mentor Award from GE India. A seasoned academician, he has taught at Stanford, ISI Delhi, the Indian Institute of Management (IIM-Bangalore), and the Indian Institute of Science. Currently, he is a full-time faculty member at Great Lakes. He is Associate Dean at the MYRA School of Business, where he teaches courses such as business analytics, data mining, marketing research, and risk management. He is also co-founder of OmiX Labs – a startup company dedicated to low-cost medical diagnostics and nucleic acid testing.

▶ The faculty has contributed to program curriculum and online learning content only.

Dr. Daniel Mitchell is a Clinical Assistant Professor in the Department of Information, Risk, and Operations Management at the McCombs School of Business, The University of Texas at Austin. He received his Ph.D. in Information, Risk, & Operations Management from UT Austin. His main research interests are focused on financial engineering, specifically in applying stochastic control to problems in finance. He has worked on projects in option pricing, algorithmic trading, federal intervention in the interest rate market, and human mortality forecasting.

Dr. Narayana holds a Ph.D. in Mathematics from Pierre and Marie Curie University, Paris, France. He has more than 11 years of industry experience and over 4 years of academic research experience. Over these years, he has worked as a professor, trader, project manager, team lead, and developer. His areas of expertise include Machine learning, Optimization, Financial Engineering, and High-frequency & Algorithmic Trading. He is proficient in the R Language, Hadoop, Python & Big Data Technologies. He has published over ten research articles in international journals and conferences. He has taught courses in Big Data technologies, guided student projects, and mentored students at premier institutes.

Dr. Pavankumar Gurazada brings a unique blend of industry experience and academic expertise, specializing in marketing, digital marketing, and Machine Learning. He is also a Data Science advisor and board member of Constems AI, a deep tech startup focused on building computer vision systems for Industry 4.0. Dr. Gurazada completed his Ph.D. from IIM Lucknow, with a research focus on using Machine Learning techniques to understand consumer engagement on social media. His research has been presented at prominent international conferences such as the EMAC Conference 2018, the China Internet+ Innovation and Entrepreneurship Conference 2019, and the NASMEI and MRSI conferences. He holds an MBA from IIM Bangalore and an Integrated Master's degree in Science from IIT Bombay. With a career that spans roles in retail and B2B sales management, Dr. Gurazada's industry experience includes leadership positions at Alghanim Retail in Kuwait and Saint Gobain in UAE & Oman, where he significantly contributed to business growth and managed distribution networks.

Prof. Mukesh Rao is a senior faculty member of Data Science at Great Learning, and is responsible for designing Data Science courses and mentoring students with Capstone projects. Prof. Mukesh Rao has over 20 years of industry experience in Market Research, Project Management, and Data Science and has conducted extensive corporate training in Data Science and Big Data. He also works as a Data Science Trainer & Consultant for 4v Technologies and conducts training in core big data technologies and Data Science. He has headed Big Data teams at SourceOne and has worked with tech giants like Wipro Technologies.

Dr. Bradford Tuckfield is a Data Science Consultant at his company, Kmbara, where he provides automated, data-centric solutions in domains like Manufacturing, Pharmaceuticals, Marketing, and Technology. He has also authored books on Data Science, Computer Science, and Algorithms, and works as an instructor at ViaX and Great Learning. Dr. Bradford completed his Ph.D.from the Wharton School in Operations and Information Management. He comes from a background in Mathematics and Economics and has wide expertise in Data Science, including Statistics, Programming, and Machine Learning.

Mr. Udit Mehrotra, based in Austin, Texas, US, is currently a Data Specialist at Stripe and is a former Data Science Specialist at McKinsey & Company. Udit brings experience from previous roles at Dell Technologies, Modal, and Great Learning. Udit Mehrotra holds a Bachelor of Science (B.Sc) in Mathematics: Statistics, Probability, and Data Analysis and a certification in Statistical Modelling from The University of Texas at Austin. With a robust skill set that includes Mathematics, Water Resource Management, Neural Networks, and more, he brings his diverse experience across different industries in his role as an instructor and mentor for multiple programs at Great Learning

PROGRAM STRUCTURE

This program is finely calibrated with a structured learning path, live mentorship, and dedicated support. As a result, it has a stellar 97% learner satisfaction rate and successful learning outcomes, as rated by learners, with an average session rating of 4.8/5.

12-MONTH PROGRAM	
Month 1	**Foundational course on Python for AI solutions**
Bootcamp	**Optional module to hone your Python skills**
Months 2-8	**Core curriculum on AI, Machine Learning, Deep Learning, Generative AI, MLOps, Statistics, and SQL** Involves 50+ hours of recorded video content from UT and GL faculty and live weekend micro-group sessions with industry experts, with hands-on practical applications and problem-solving
Months 9-11	**Project submissions with personalized feedback**
Month 12	**Final integrative Capstone Project**
Self-Paced	**Five modules on Multimodal Generative AI, Recommendation Systems, Object Detection and Segmentation, Reinforcement Learning, Time Series Forecasting**

"Great Learning's PGP-AIML is an eye-opener on future technologies and opportunities and is led by industry experts who put their efforts into ensuring that the knowledge is shared in the right sense. They try to help learners gain critical information that is important for their career success."

Dhinesh Kumar Ganeshan
Lead Consultant - Infosys

PROGRAM CURRICULUM

Python and GenAI Prep Work

Python Bootcamp for Non-programmers

- Overview of Python
- Fundamentals of Python Programming
- Overview of NumPy and Pandas
- Overview of Visualization in Python
- Overview of Data Preprocessing in Python

Python Prep Work

- Introduction to Python Programming
- AI Application Case Study

Generative AI Prep Work

- ChatGPT and Generative AI - Overview
- ChatGPT - Applications and Business
- Generative AI Demonstrations

Course 1 | Introduction to Python

Python Programming

- Variables and Data Types
- Data Structures
- Conditional and Looping Statements
- Functions

Python for Data Science

- NumPy Arrays and Functions
- Creating, Accessing and Modifying NumPy Arrays
- Saving and Loading NumPy Arrays
- Creating, Accessing and Modifying Pandas Series
- Pandas DataFrames
- Creating, Accessing, Modifying, and Combining DataFrames
- Pandas Functions
- Various Data Manipulation Functions in Pandas
- Saving and Loading Datasets Using Pandas

Exploratory Data Analysis (EDA)

- Data Overview
- General Statistics of the Dataset (e.g. describe(), info())
- Univariate Analysis (Histogram, Boxplots, and Bar Graphs)
- Bivariate/Multivariate Analysis (Line Plot, Scatterplot, Lmplot, Jointplot, Violin Plot, Strip plot, Swarmplot, Catplot, Pairplot, Heatmap)
- Customizing of Plots
- Missing Value Treatment
- Outlier Detection and Treatment

Analyzing Text Data

- Text Processing
- Stopword Removal
- Stemming
- Removing Special Characters and Whitespace
- Text Vectorization (Bag of Words, N-grams)

Course 2 | Machine Learning

Linear Regression

- Introduction to Learning From Data
- Types of Machine Learning
- Business Problem and Solution Space
- Regression, Correlation and Linear Relationships
- Simple and Multiple Linear Regression
- Categorical Variables in Linear Regression
- Regression Metrics

Decision Trees

- Business Problem and Solution Space - Classification
- Introduction to Decision Trees
- Impurity Measures and Splitting Criteria
- Classification Metrics
- Pruning
- Decision Trees for Regression

K-means Clustering

- Business Problem and Solution Space - Clustering
- Distance Metrics
- Introduction to Clustering
- Types of Clustering
- K-means Clustering
- t-SNE for Visualizing High-dimensional Data

Course 3 | Advanced Machine Learning

Bagging

- Introduction to Ensemble Techniques
- Introduction to Bagging
- Sampling with Replacement
- Introduction to Random Forest

Boosting

- Introduction to Boosting
- Boosting Algorithms (Adaboost, Gradient Boost, XGBoost)
- Stacking

Model Tuning

- Feature Engineering
- Cross-validation
- Oversampling and Undersampling
- Model Tuning and Performance
- Hyperparameter Tuning
- Grid Search
- Random Search
- Regularization

Course 4 | Introduction to Neural Networks

Introduction to Neural Networks

- Deep Learning and History
- Multi-layer Perceptron
- Types of Activation Functions
- Training a Neural Network
- Backpropagation

Optimizing Neural Networks

- Optimizers and Their Types
- Weight Initialization and its Techniques
- Regularizations and its Techniques
- Types of Neural Networks

Course 5 | Natural Language Processing with Generative AI

Word Embeddings

- Introduction to NLP
- History of NLP
- Sentiment Analysis
- Introduction to Word Embeddings
- Word2Ve
- GloVe
- Semantic Search

Attention Mechanism and Transformers

- Introduction to Transformers
- Components of a Transformer
- Different Transformer Architectures
- Applications of Transformers

Large Language Models and Prompt Engineering

- Introduction to LLMs
- Working of LLMs
- Applications of LLMs
- Introduction to Prompt Engineering
- Strategies for Devising Prompts

Retrieval Augmented Generation

- Introduction to Embeddings and Tokenization
- Byte-Pair Encoding (BPE) Tokenization
- Computation and Application of Sentence Embeddings
- Retrieval-Augmented Generation (RAG)

Course 6 | Introduction to Computer Vision

Image Processing

- Overview of Computer Vision
- Color Pixel and Image Representation
- Edge Detection
- Kernels
- Padding, Strides and Pooling
- Flattening to a 1D Array

Convolutional Neural Networks

- ANN vs CNN
- CNN Architecture
- Introduction to Transfer Learning
- Common CNN Architectures

Course 7 | Model Deployment

Introduction to Model Deployment

- Introduction to Model Deployment
- Serialization
- Deployment Using Streamlit

Containerization

- Introduction to Containerization
- Docker
- Deployment Using Flask

Course 8 | Introduction to SQL

Querying Data with SQL

- Introduction to Databases and SQL
- Fetching Data
- Filtering Data
- Aggregating Data

Advanced Querying

- In-built Functions (Numeric, Datetime, Strings)
- Joins
- Window Functions

Enhancing Query Proficiency

- Subqueries
- Order of Query Execution

Course 9 | Applied Statistics

Inferential Statistics Foundations

- Experiments, Events, and Definition of Probability
- Introduction to Inferential Statistics
- Introduction to Probability Distributions (Random Variable, Discrete and Continuous Random Variables, Probability Distributions)
- Binomial Distribution
- Normal Distribution

Estimation and Hypothesis Testing

- Sampling
- Central Limit Theorem
- Estimation
- Introduction to Hypothesis Testing
- Hypothesis Formulation and Performing a Hypothesis Test
- One-tailed and Two-tailed Tests
- Confidence Intervals and Hypothesis Testing

Common Statistical Tests

- Test for One Mean
- Test for Equality of Means
- Chi-square Test of Independence
- One-way ANOVA

Course 10 | Advanced Machine Learning And MLOps

Model Interpretability

- Parameter Significance using Hypothesis Testing
- SHAP Values

Introduction to DevOps and MLOps

- Introduction to Git, Branching, Merging, and Remote Repositories
- Introduction to GitHub Actions
- Creating and Configuring Workflows
- Advanced Workflow Configuration

Building ML Pipelines

- Overview of MLflow
- Basic Workflows
- Experiment Tracking
- Packaging Code and Running Projects
- Model Lifecycle Management

Course 11 | Advanced Generative AI for Natural Language Processing

AI Assistant Development

- LangChain Library Overview
- AI Agent Tools
- AI agents Within LangChain
- Agents Workflow
- Agent Types

Fine-tuning LLMs

- Fine-tuning
- Parameter-Efficient Fine-Tuning (PEFT)
- PEFT Techniques (Prefix Tuning, Prompt Tuning, QLoRA)
- QLoRA Application and Implementation

Course 12 | Capstone

This course will help you Identify and define a real-world problem considering factors such as data availability, feasibility, and potential impact. Design and develop a Data Science solution that addresses the identified problem, explore, analyze, and process the data, apply and evaluate Data Science techniques to implement the solution effectively, and communicate insights and implications to stakeholders.

Additional Modules: Learn at Your Own Pace

Course 1: Introduction to Data Science and AI

- The fascinating history of Data Science and AI
- Transforming Industries through Data Science and AI
- The Math and Stats underlying the technology
- Navigating the Data Science and AI Lifecycle

Course 2: Multimodal Generative AI

- Code Generation Using GenAI
- Image Creation Using GenAI
- Speech Recognition Using GenAI

Course 3: Recommendation Systems

- Introduction to Recommendation Systems
- Market Basket Analysis
- Popularity-based and Content-based Recommendation Systems
- Collaborative Filtering
- Hybrid Recommendation Systems

Course 4: Object Detection and Segmentation

- Introduction to Object Detection and Image Segmentation
- Algorithms for Object Detection (Region-based, Single-shot, Two-stage)
- Semantic and Instance Segmentation
- Siamese Networks
- Applications of Object Detection and Image Segmentation

Course 5: Reinforcement Learning

- Reinforcement Learning Framework
- Q-learning
- SARSA Algorithm

Course 6: Time Series Forecasting

- Introduction to Time Series Analysis
- Introduction to Forecasting
- ARIMA & SARIMA

"Already working in the analytics field, I enrolled to enhance my skills, and the program successfully helped me achieve this goal. The Capstone Project also offered a valuable learning experience. After completing the program, I applied for roles and secured a great opportunity. I am now working as an Analytics Associate at J.P. Morgan."

Venkatasubramanian J
Lead Consultant - Infosys

WHO IS THIS PROGRAM FOR?

Professionals looking to transition into Artificial Intelligence and Machine Learning roles from engineering, IT, or business domains

IT professionals seeking to move beyond legacy technologies and build future-proof careers in AI

Domain experts aiming to apply AI techniques to solve challenging problems in their fields

Early-career professionals and graduates aspiring to launch careers in Artificial Intelligence and Machine Learning

Individuals returning to the workforce and looking to restart their careers through in-demand Artificial Intelligence skills

AFTER COMPLETING THIS PROGRAM, YOU WILL BE ABLE TO

Build and Deploy End-to-End AI Solutions
Apply core AI and Machine Learning techniques to real-world challenges, from data preparation and model building to deployment and monitoring.

Use Deep Learning for Complex Problem Solving
Work with neural networks, CNNs, and RNNs to build solutions in areas such as image recognition, natural language processing, and time-series forecasting.

Work with Industry-Standard Tools and Frameworks
Gain hands-on experience with Python, TensorFlow, Keras, and Scikit-learn to build scalable and production-ready AI models.

Apply Generative AI in Business Contexts
Understand how models like ChatGPT work, and explore their use in automation, content generation, and customer engagement.

Manage AI Workflows with MLOps
Implement versioning, automation, and deployment best practices to manage the full lifecycle of AI/ML projects using MLOps techniques.

Showcase Your Skills with Real-World Projects
Build a portfolio through 11 hands-on projects and a Capstone, demonstrating your ability to solve business problems using AI and ML.

PROGRAM PEDAGOGY

Program Delivery

The program is delivered in an online format with weekend mentorship sessions that span over 12 months.

Online Learning Management System

All learners have access to the online LMS that hosts content (lecture recordings, discussion forums, assignments, reading material) and live webinars to enable the learners to continue their learning during campus. The LMS provides an innovative learning environment that encourages collaborative approach between the learners thus paving the way for maximizing learning effectiveness.

Capstone Project

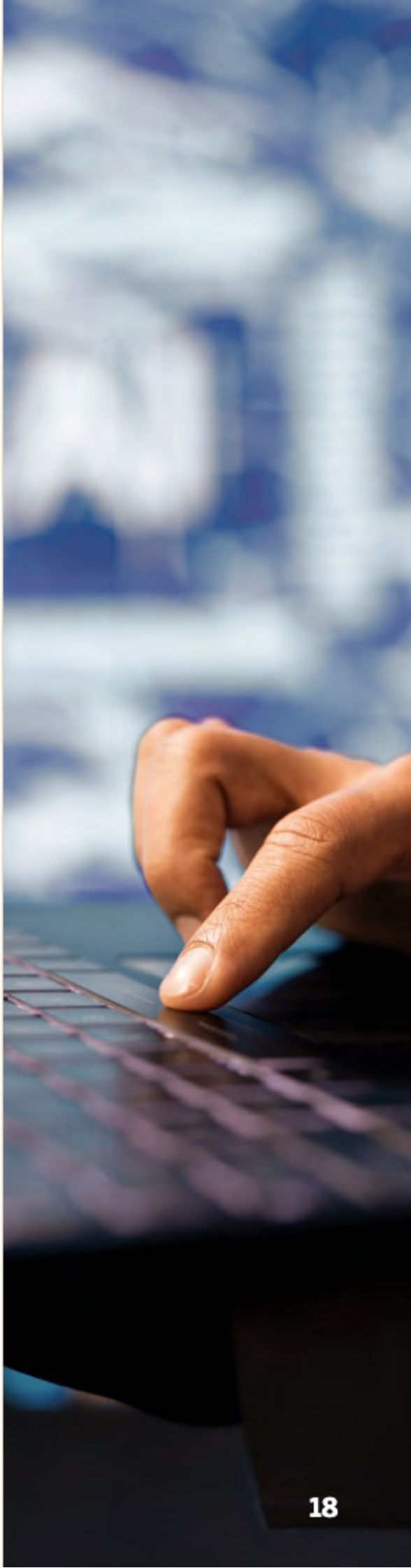
All learners would be pursuing an application-oriented capstone project in the field of Artificial Intelligence and Machine Learning. The project shall be mentored and evaluated by faculty from Great Lakes Executive Learning or industry experts. The project will be presented to the faculty board as part of the requirement for successful completion of the program.

Industry Perspective Lectures

This is an important component of the program that complements and substantiates learning with an applied orientation. Learners get the opportunity to listen to eminent speakers from leading Artificial Intelligence and Machine Learning companies and assimilate the best practices discussed by them in their lectures.

Experiential Learning

This program is designed to transform learners into business-ready Artificial Intelligence and Machine Learning professionals through hands-on experiential learning of relevant tools. This is achieved through hands-on labs, practice exercises, hackathons, quizzes and assignments on software packages such as Python, NLP and Deep Learning.



GENERATIVE AI WITH HUGGING FACE

Hugging Face is a platform where the Machine Learning community collaborates on models, datasets, and applications. It allows users to build, train, and deploy Machine Learning and AI models by leveraging the models and datasets shared by the community and also test and share their work openly.

One of the key components of the Hugging Face platform is the Transformers library. This open-source Python library provides access to thousands of pre-trained transformers and Large Language Models (LLMs) for Natural Language Processing (NLP) and Computer Vision (CV).

In this program, you'll use the Transformers library to access and use state-of-the-art LLMs for various tasks like text classification, question-answering, summarization, text generation, sentence similarity, and more.

PROJECTS

1. **Customer Demand Insights for FoodHub Restaurants**
   Industry: Food and Beverages
   Summary: Perform an Exploratory Data Analysis and provide actionable insights for a food aggregator company to get a fair idea about the demand of different restaurants and cuisines, which will help them enhance their customer experience and improve the business.
   Skills & Tools: Python, NumPy, Pandas, Seaborn, Univariate Analysis, Bivariate Analysis, Exploratory Data Analysis

2. **Loan Purchase Prediction from Marketing Campaign Data**
   Industry: BFSI
   Summary: Analyze historical marketing campaign data of a bank and build a Machine Learning Model that will help to identify the customers of a bank who are exposed to a marketing campaign and have a higher probability of purchasing a loan.
   Skills & Tools: Exploratory Data Analysis, Decision Trees, Pruning, Scikit-Learn, Pandas, Seaborn

3. Predictive Model for Visa Status Determination

Industry: Immigration

Summary: Analyze the data of Visa applicants, build a predictive model to facilitate the process of visa approvals, and based on important factors that significantly influence the visa status recommend a suitable profile for the applicants for whom the visa should be certified or denied.

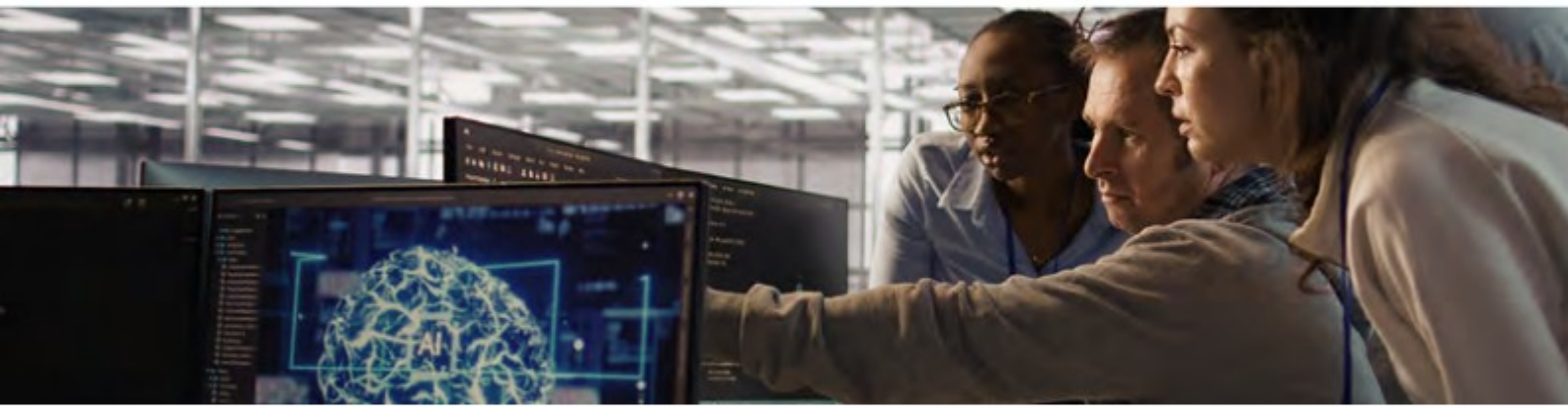
Skills & Tools: Exploratory Data Analysis, Data Preprocessing, Bagging, Random Forest, Boosting, AdaBoost, Gradient Boosting, XGBoost, GridSearchCV

4. Optimizing Wind Turbine Maintenance with Neural Network Models

Industry: Energy

Summary: Analyze the data provided by a wind energy provider regarding equipment health, build various neural network models, and find the best one that will help identify failures so that the equipment be repaired before failing/breaking and the overall maintenance cost can be brought down.

Skills & Tools: Exploratory Data Analysis, Data Preprocessing, Tensorflow, Keras, Artificial Neural Networks, Regularization



5. Optimizing Investment Strategies with Stock News Sentiment Analysis

Industry: BFSI

Summary: Analyze the data comprising of stock news and prices, develop an AI-driven Sentiment Analysis system that will automatically process and analyze news articles to gauge market sentiment, and summarize the news at a weekly level to help financial analysts optimize investment strategies and improve client outcomes.

Skills & Tools: Exploratory Data Analysis, Word Embeddings, Transformers, Sentence Transformers, Large Language Models, Prompt Engineering, Sentiment Analysis

6. Plant Seedling Classification using CNN

Industry: Agriculture

Summary: Build a robust image classifier using CNNs to efficiently classify different plant seedlings and weeds to maximize crop yields and minimize human involvement.

Skills & Tools: Image Processing, Image Classification, Keras, Tensorflow, Convolutional Neural Networks, Transfer Learning

7. **Churn Prediction for Credit Card Users Using Machine Learning**

Industry: BFSI

Summary: Analyze historical customer data, build a predictive model that predicts whether or not a customer will discontinue using a bank's credit card services, and identify the key factors affecting the customer's decision.

Skills & Tools: Exploratory Data Analysis, Random Forest, Hyperparameter Tuning, Scikit-Learn, Model Deployment, Docker, Flask

8. **Exploring Vehicle Resale Trends Through Data Analysis**

Industry: Retail

Summary: Analyze a vehicle resale company's listing and customer feedback data, answer business questions, and provide recommendations for the leadership to enable data-driven decision-making.

Skills & Tools: Querying Data, SQL Functions, Data Aggregation, Joins, Subqueries, Window Functions8.

9. **Statistical Analysis of Landing Page Effectiveness for Subscriber Growth**

Industry: News and Media

Summary: Explore the data provided and perform Statistical Analysis to decide whether the new landing page of an online news portal is effective enough to gather new subscribers as compared to the old one.

Skills & Tools: Data Visualization, Exploratory Data Analysis, Hypothesis Testing, A/B Testing, Statistical Inference

10. **Building a Predictive Model for Hotel Booking Cancellations**

Industry: Hospitality

Summary: Analyze the data of INN Hotels to find which factors have a high influence on booking cancellations, build a predictive model that can predict which booking is going to be canceled in advance, and help in formulating profitable policies for cancellations and refunds.

Skills & Tools: Exploratory Data Analysis, Data Preprocessing, Logistic regression, Multicollinearity, Decision Trees, Pruning, Feature Importance

11. **Sentiment Analysis for Product Improvement in E-commerce**

Industry: Retail

Summary: Refine product offering by extracting customer sentiment and identifying areas of improvement for products sold on an e-commerce platform by performing aspect based Sentiment Analysis on customer reviews where sentiments are extracted for individual components of the products.

Skills & Tools: Exploratory Data Analysis, Transformers, Large Language Models, Prompt Engineering, Parameter-Efficient Fine Tuning

GET MENTORED BY TOP INDUSTRY PRACTITIONERS

Sandeep Raghuvanshi
Senior Specialist - Technology
at Synechron

Bhaskar Mothali
Director, QMS Product Management
at Novartis

Murali Balasubramaniam
Regional Head for Technologies
at Stellantis

Ketan Bhat
Chief Operation Officer
at Dharohar

Saurabh Bagchi
Vice President
at JP Morgan Chase & Co

Naga Pavan Kumar Kalepu
AI Decision Science Manager
at Accenture

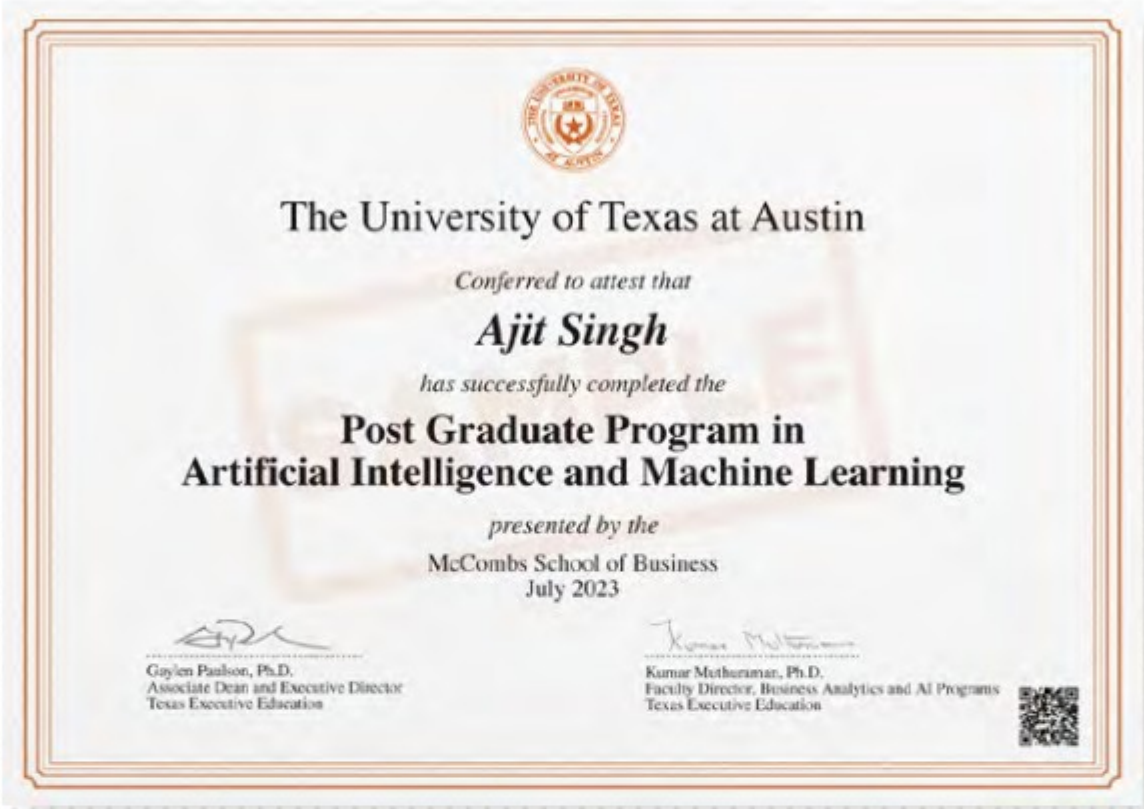
Sajin Majeed
Assistant Manager-CAE
at Tata Technologies

Jyant Mahara
Data Science Lead
at Zscaler

"Great Learning's mentors are all experienced professionals who were dedicated individually to a group of learners. They helped us build a strong solid foundation from scratch and also helped us gain practical experience by helping with our projects and clarifying doubts clearly during weekend sessions."

Adaikala Jaya Mary
Senior Data Processing Analyst, NielsenIQ

EARN PG CERTIFICATES FROM UT AUSTIN AND GREAT LAKES EXECUTIVE LEARNING



The University of Texas at Austin

Conferred to attest that

Ajit Singh

has successfully completed the

Post Graduate Program in Artificial Intelligence and Machine Learning

presented by the

McCombs School of Business
July 2023

Gaylen Paulson, Ph.D.
Associate Dean and Executive Director
Texas Executive Education

Kumar Muthuraman, Ph.D.
Faculty Director, Business Analytics and AI Programs
Texas Executive Education

GREAT LAKES EXECUTIVE LEARNING

GREAT LAKES EXECUTIVE LEARNING

hereby confers the certificate of completion to

Ajit Singh

in

POST GRADUATE PROGRAM IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

for successfully completing the prescribed courses of study

Mr. Mohan Lakhamraju
Vice Chairman

DEDICATED CAREER SUPPORT

E-PORTFOLIO

An e-portfolio is a snapshot of all the projects done and skills acquired during the program that is shareable across social media channels. This will help you establish your expertise to potential recruiters.

RESUME REVIEW AND INTERVIEW PREPARATION

Build your resume to highlight your skills and your previous professional experience. Also, learn how to crack interviews with interview preparation sessions.

CAREER GUIDANCE

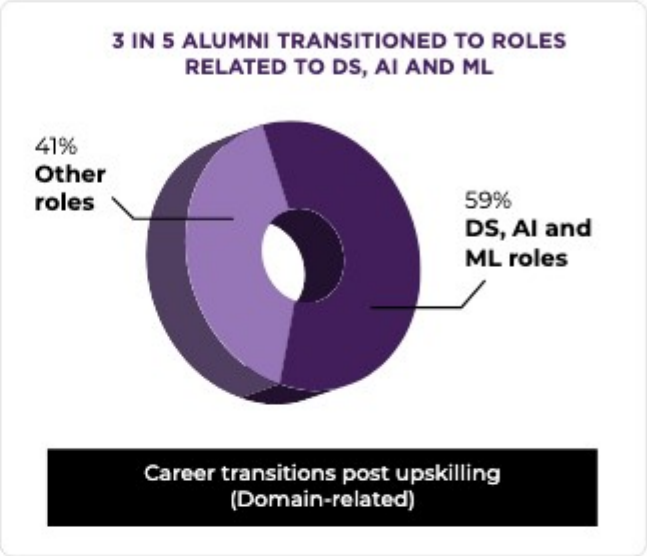
Get access to career mentoring from industry experts who've transitioned to Artificial Intelligence and Machine Learning roles. Benefit from their guidance on how to build a rewarding career in Artificial Intelligence and Machine Learning.

JOB BOARD

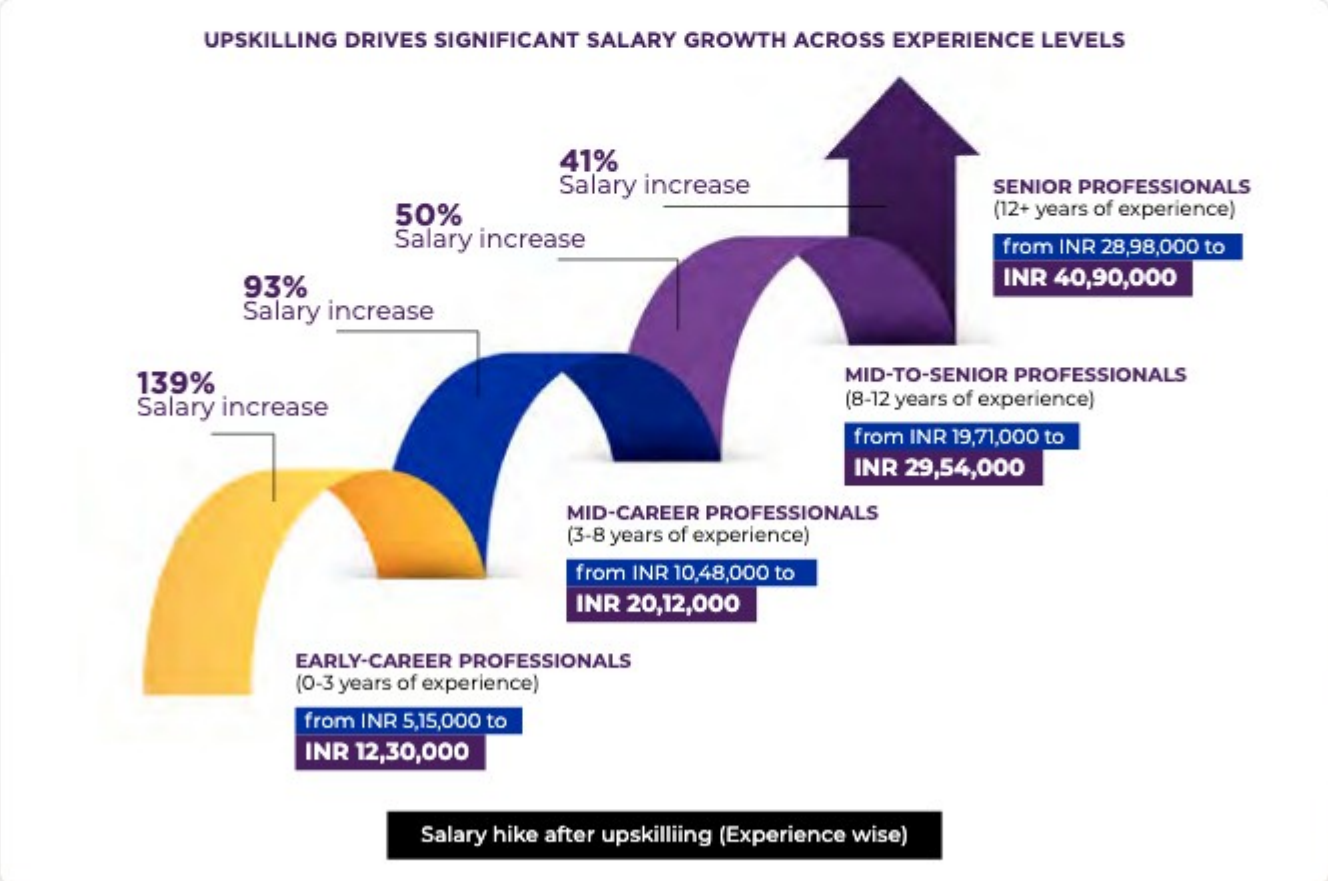
The program provides learners access to a Job Board with job opportunities shared by 4000+ organizations. Gain an average salary hike of 50% like many other learners.

ALUMNI CAREER SUCCESS

Our alumni have achieved meaningful career growth and success after completing the program, in terms of advancement into senior roles, career transitions and salary increases.



Alumni moved into leadership and transitioned into AI and ML roles



Three years post-completion, professionals saw significant salary growth across roles

Source: Great Learning Alumni Career Progression Report 2025

PROGRAM COMPARISON

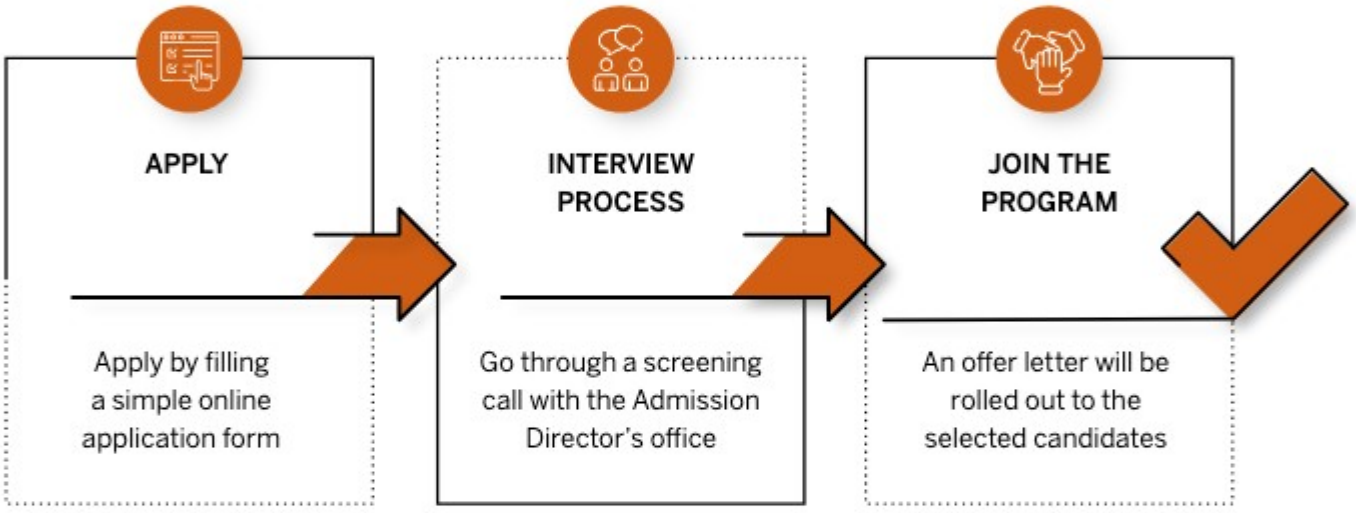
Features	Great Learning Programs	Other Courses
Certificate	Dual certificates from UT Austin and Great Lakes	No university certificate
GenAI modules	Extensive coverage of GenAI topics	Limited coverage
Live mentored learning	Live interactive online classes with industry professionals	Limited to no live classes
Career support	Yes, with mock interviews and job boards	No career support
Hands-on projects	10+ lab sessions with a 4-week capstone project	Fewer projects and no capstone project
Program support	Dedicated support to complete your course	Limited support

ADMISSION DETAILS

Eligibility

Applicants should have a Bachelor's degree with a minimum of 50% aggregate marks or equivalent and familiarity with programming. For candidates who do not know Python, we offer a free pre-program tutorial.

Selection Process



Program Fee

₹2,75,000 + GST

PAYMENT METHODS

Candidates can pay the program fee through net banking, credit cards, or debit cards.

FINANCIAL AID

With our corporate financial partnerships, avail education loans at 0% interest rate* .

eduvanz | LIQUILOANS | Propelld | gyandhan

*Conditions Apply. Please reach out to the admissions team for more details.

Great Learning
POWER AHEAD

ABOUT GREAT LEARNING

13Mn Learners | **170+** Countries | **7600** Experts and Mentors | **91%** Program Completion Rate

Great Learning is a leading global ed-tech company for professional and higher education. It offers comprehensive, industry-relevant programs across various cutting-edge Technology, Data, and Business domains. These programs are developed in collaboration with the world's foremost academic institutions, such as MIT Professional Education, Johns Hopkins University, The University of Texas at Austin, Northwestern School of Professional Studies, Deakin University, Great Lakes Institute of Management, and more.

They are constantly reimagined and revamped to address the dynamic needs of the industry. Offered in blended, classroom and purely online modes, these programs are delivered with the help of expert mentors and highly qualified faculty. Great Learning is on a mission to enable transformative learning and career success in the digital economy and has impacted 13 million+ learners from over 170 countries.

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