

SUDIP DAS

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EDUCATION

M.S. in Artificial Intelligence Jan 2024 - Dec 2025 (Expected)

San Jose State University, San Jose, CA, GPA 3.80/4.00

Relevant Coursework: Machine Learning, Artificial Intelligence, Data Mining, Deep Learning, NLP, Statistics, Data Science

B.Eng. in Computer Engineering Internship Program Sept 2016 - Dec 2021

McGill University, Montreal QC, GPA: 3.60/4.00, Recipient of the James McGill Scholarship Award

Relevant Coursework: Algorithms, Data Structure, Software engineering practices, Computer Architecture, Computer Vision

SKILLS

AI and Machine Learning: NumPy, Pandas, TensorFlow, PyTorch, Scikit-Learn, Neural Network, Deep Learning, NLP, LLM

Software Development: Debugging, Coding, Testing, Code Review, Agile Methodologies, Object-Oriented Programming

Programming Languages: Python, Java, Javascript, SQL, C/C++, R | **Tools & Version Control:** Github, Git, Excel, VBA

Cloud Computing: Amazon Web Services (AWS) - EC2, S3, CloudWatch | **Operating System:** MacOS, Windows, Linux

WORK EXPERIENCE

Software Development Engineer, Amazon, Toronto ON June 2022 - May 2023

- Contributed to the software development life cycle within Amazon's A9 advertising platform, focusing on targeted ads and bidding strategies, with responsibilities spanning design, coding, testing, and deployment.
- Debugged and resolved complex technical issues while managing multiple tickets concurrently, ensuring the high availability and performance of software applications, and optimizing the balance between running time and cost.

Engineering Intern, Bombardier Aviation, Dorval QC Sept 2019 - Aug 2020

- Proficiently utilized MS Office 365, VBA, HTML, and other internal tools to analyze data, create reports and web pages, and develop data-driven solutions, contributing to improved decision-making processes.
- Collaborated with cross-functional teams to ensure seamless project completion, maintaining high-quality deliverables while minimizing roadblocks and fostering a positive work environment.

ENGINEERING PROJECTS

Bug-Bite Classification Using Machine Learning Jan 2024 - Present

(Project Paper submitted for '2025 IEEE Conference on Artificial Intelligence (CAI)')

- Developed a Region based Convolutional Neural Network (R-CNN) model for high-accuracy image classification, leveraging deep learning methods to predict various types of bug bites and enabling immediate medication response.
- Performed extensive data preprocessing and augmentation techniques on the collected dataset to improve model robustness and integrated location metadata for enhanced accuracy.

NLP Trainer: Intelligent Virtual Assistant for NLP Concepts Sep 2024 - Dec 2024

- Built an interactive learning assistant leveraging LangChain and Retrieval-Augmented Generation (RAG) to provide comprehensive answers on NLP questions, reducing study time for students and preparation time for job seekers.
- Improved the initial Llama 3.2 and Flan-T5 model-generated responses by refining grammar, ensuring answer completeness, and incorporating GPU-based content processing for optimized performance.

University Majors and Employment Outcomes Analysis Sep 2024 - Dec 2024

- Conducted statistical hypothesis testing and machine learning analysis to identify trends in employment outcomes across university majors, utilizing R for data preprocessing, integration, and exploratory data analysis (EDA).
- Delivered actionable insights through interactive RMarkdown dashboards and visualizations (scatter plots, box plots, histograms), enabling data-driven academic and career recommendations based on comprehensive data analysis.

ACTIVITIES

International Student & Scholar Services Peer Mentor Aug 2024 - Present

Machine Learning Club member at San Jose State University Jan 2024 - Present