AMAR SINGH

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Education

B.COM | SWAMI SHRADDHANAND COLLEGE | Persuing | **New Delhi**
Bachelor Education

SWAMI DEVANAND INTER COLEGE **Jhansi, Uttar Pradesh**
Higher Secondary Education

SWAMI DEVANAND INTER COLLEGE
Secondary School Education **Jhansi, Uttar Pradesh**

Internship Experience

Appwar's Technology **Noida , Uttar Pradesh**

- **Python**
  - Utilized Python for data preprocessing, cleaning, and transformation using libraries such as **pandas** and **scikit-learn**.
  - Automated repetitive tasks and implemented scripts to streamline workflows.
  - Applied machine learning basics (classification models) to extract insights from datasets.
- **SQL**
  - Wrote and optimized SQL queries to retrieve, filter, and aggregate data from relational databases.
  - Designed joins, subqueries, and stored procedures to support business reporting needs.
  - Ensured data integrity and accuracy by validating query outputs against raw datasets.
- **Powerbi**
  - Built interactive dashboards and visual reports to communicate key performance indicators (KPIs).
  - Used DAX (Data Analysis Expressions) to create custom measures and calculated columns.
  - Translated complex data findings into actionable insights for stakeholders.

Projects

Python Project – Instagram bot

- Built an end-to-end data pipeline using Python to analyze user behavior and engagement metrics for a simulated Instagram database.
- Optimized marketing spend by identifying peak activity periods and improved platform integrity by detecting potential bot accounts, resulting in a data-driven framework for user retention.

Chatbot using Python

- Created a virtual assistant chatbot using Python, capable of handling voice commands
- Integrated speech recognition to allow the chatbot to understand and process user inputs
- Designed the chatbot to perform tasks such as web searches, opening applications, and more
- Enhanced the chatbot's functionality to automate daily tasks and provide relevant information efficiently

SQL Project – Hospital/Patient Management System

- Designed a relational database system with 6+ normalized tables to manage patients, doctors, appointments, treatments, and billing.
- Wrote advanced SQL queries using joins, subqueries, and aggregations to generate patient history, doctor schedules, and revenue report.
- Implemented data integrity through foreign keys and normalization to 3NF.

- Visualized key metrics such as appointment load and payment trends using Power BI.

Powerbi Project – Pizza sales dashboard

- Developed a comprehensive Power BI Sales Dashboard for a retail pizza outlet.
- Leveraged Power Query for ETL processes and DAX to calculate 10+ business KPIs.
- Translated 50,000+ rows of data into actionable insights, identifying peak sales hours and underperforming products,ultimately providing a roadmap for inventory and labor optimization.

Machine Learning Project – Iris Flower Classification using K-Nearest Neighbore (KNN)

- The Iris Flower Classification project involves building a machine learning model to classify iris flowers into three species–Setosa, Versicolor, and Virginica–based on four key features: sepal length, sepal width, petal length, and petal width.
- The project uses the K-Nearest Neighbors (KNN) algorithm, a simple yet powerful supervised classification method.

Additional Information

Certifications

2025 : Data analytics and Data Science With AI

IT Skills

- Python with libraries
- SQL
- Advanced Excel
- Powerbi
- Machine Learning
- Deep Learning
- AI Tools

Languages : Hindi, English

Interests : Music, Travelling.