AVANYA GUPTA

Software Developer

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I have a solid understanding of data structures, algorithms, and OOP principles, with hands-on experience in building APIs and developing software solutions. My skill set includes strong proficiency in SQL for querying, cleaning, and transforming datasets, as well as designing efficient database structures and optimizing query performance. I also work with data preprocessing techniques, such as handling missing values, feature scaling, and encoding categorical variables.

EDUCATION

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING   2020 – 2024

Jamia Hamdard University – Delhi

SKILLS

Programming Languages
Python, C++

Libraries
Pandas, NumPy, Scikit-learn, Flask

Web Development
Tools: HTML, CSS, JavaScript

Databases
Software: MySQL, SQL Server

Machine Learning
Techniques: Supervised and Unsupervised Learning, Model Evaluation, Feature Engineering

WORK EXPERIENCE

SOFTWARE DEVELOPMENT INTERN - Globus Infocom Ltd - Noida   Dec 2024 – May 2025

- Developed a conversational bot with integrated input/output capabilities, leveraging open-source models, Llama3.2 and Qwen2.5, to generate topic-based content, questions, and answers.
- Designed and optimized SQL queries to efficiently store, retrieve, and manage conversation logs and user data.
- Integrated RESTful APIs for seamless front-end and back-end communication.

Projects (*https://github.com/avanya02*)

NATURAL LANGUAGE TO SQL SEARCH ENGINE

- Designed a Natural Language to SQL query interface using Streamlit, and SQL- 100% offline, zero cloud dependency.
- A polished, responsive Streamlit web UI with real-time results, syntax highlighting, and user-friendly error feedback.

DIABETES PREDICTION MODEL

- Built a diabetes prediction model using SVM on clinical health data.
- Performed extensive data preprocessing, including handling missing values, detecting outliers, and preparing features for analysis.
- Evaluated model effectiveness using metrics such as accuracy, confusion matrix, and cross-validation, revealing strong predictive performance and reliable classification results.

COURSES & CERTIFICATIONS

- Machine Learning for Data Science – CodeBasics
- Data Science & Machine Learning Bootcamp – Udemy