Mehak Agrawal

Authorized to work in the US

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Education

Santa Clara University, Santa Clara, CA
Master of Science in Information Systems   March 2025

Shiv Nadar University, Greater Noida, India
Bachelor of Technology in Computer Science Engineering   May 2023

- Minor in Business Management
- Specialization in Data Science and Big Data Analytics

Experience

Lexmark Internship   Lexington, KY
Data Engineer Intern   June - September 2024

- Developed and designed a resource management platform using Unily CMS for the Data Engineering Team, cutting resource search time by 40% and enhancing overall accessibility.
- Generated synthetic datasets with SDV models and Python libraries, ensuring 95% data integrity and maintaining privacy.
- Optimized data transformation by converting raw SQL queries into delta tables and creating silver tables from bronze tables using Databricks and Delta Lake, improving data readiness for analytics by 25%.

Samvid.ai Internship   Remote
Software Development Consultant   May - July 2024

- Implemented scalable software solutions for clients, enhancing system efficiency by 25%, and utilized methodologies in data science, including Python, NLP, and cloud services like AWS to meet complex business requirements.
- Developed and implemented advanced essence extraction techniques, leading to a significant improvement in model efficiency and output quality by 20%.

Qubo, Hero Electronix Internship   Noida, India
Java Intern   February - May 2023

- Collaborated with a team to identify and implement suitable open-source brokers for home and industrial automation applications, resulting in a 20% improvement in efficiency and enhancing system stability across IoT applications.
- Developed and tested Java-based applications using Spring Boot to deliver a reliable MQTT-based solution by implementing new algorithms and debugging existing code within a 3-month internship period.

Projects

Medical Chatbot for EY   2024
Built a chatbot using LangChain, Pinecone, and Flask; frontend with HTML, CSS, and JavaScript to analyze medical PDFs.

Road Accident Analysis   2024
Analyzed and visualized UK road accident data with Tableau to identify safety trends and factors.

Technical Skills and Interests

Languages: Python, C/C++, Java, SQL, HTML, CSS, Bootstrap, Javascript
Tools: Git, Tableau, SharePoint, Flask, Canva, TinkerCAD
Cloud/Databases: MySQL, Firebase, Databricks, Delta Lake

Certifications

SAFe Certification   2024
Certified in SAFe Agile methodologies, skilled in scaling Agile practices to enhance project efficiency and delivery.

RoboYantriki, Robotics Club   2020-2023
Held positions as Marketing Head, Associate Secretary 1, and Advisor.

DELF Certification   2016
Passed DELF levels A1 and A2, an official diploma from the French Ministry of Education.