Amisha Sharma

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Linkedin | Github | LeetCode | Coding Ninjas | Codeforces

Experience

Specialist Programmer, Infosys   Nov 2024 – Present

- Engineered and deployed a machine learning model to predict e-commerce product returns with 87% accuracy, reducing return losses by 12%.
- Architected Flask-based REST APIs powering a real-time ticket management system, increasing processing speed by 30% and user satisfaction ratings to 4.7/5.
- Designed an AI-driven HR tool using Large Language Models to shortlist top 10 candidates per job role, cutting recruitment time by 25%.
- Devised a performance evaluation pipeline integrating GitHub commits, certifications, and skill data, improving talent matching accuracy by 40%.
- Leveraged **Python**, **Flask**, **REST APIs**, **LLMs**, **Git**, **Agile methodologies**, and **cloud deployment**.

Trainee Developer, Ratna Sagar Pvt Ltd — Delhi   Jun 2024 – Nov 2024

- Engineered an NLP-based chatbot that improved user engagement by 40%.
- Maintained and enhanced LMS modules using **HTML**, **CSS**, and **JavaScript**, increasing student engagement by 30% through improved UI and responsiveness.
- Digitized educational content from over 30 school books into interactive digital formats, streamlining learning resources.

Education

Sharda University, Master of Computer Science	Aug 2022 – Jul 2024
DAV University, Bachelor of Computer Science	Aug 2019 – Jul 2022

Technical Skills

Python, C/C++, Flask, Django, Streamlit, Scikit-learn, Keras, Pandas, NumPy, GridSearchCV, Machine Learning, Generative AI, Data Engineering, NLP, REST APIs, MySQL, MongoDB, WebSockets, Git, GitHub, Linux, JIRA, Agile, Docker, Cloud Deployment

Projects

DocAi | GitHub

- Constructed an AI-powered document question-answering system handling 100+ page PDFs with 92% accuracy, reducing manual review time by 70%.
- Implemented chunking and semantic search using **LangChain** and **Azure OpenAI API** for precise document retrieval.
- Deployed a Streamlit web app with **PyPDF2** for efficient PDF parsing and embedding, boosting user engagement by 50%.
- Technologies: **Python**, **LangChain**, **Azure OpenAI**, **Streamlit**, **PyPDF2**, NLP, Embeddings.

QueryGenie | GitHub

- Formulated a natural language to SQL query generator achieving 95% syntactic accuracy and increasing database accessibility for non-technical users.
- Integrated custom schema uploads and secure user authentication for flexible use.
- Leveraged **Cohere API** for intent recognition and error-resilient query generation.
- Technologies: **Python**, **Cohere API**, SQL, REST APIs, Flask, JSON.

PortPulse | GitHub

- Created portPulse, an AI port scanner with real-time TCP scans. Used **Censys API** for host data enrichment.
- Visualized risks for 300+ hosts using **Plotly** and classified threats with **Random Forest**.
- Enabled seamless export of audit logs in JSON and CSV formats for easier reporting and analysis
- Tech: **Python**, **Streamlit**, **Scikit-learn**, **Plotly**, **Censys API**, TCP/IP.

Publications

Optimization of Network Mapping for Screening and Intrusion Sensing Devices   Apr 2024

Haritima Atri, *Amisha Sharma*, Tushar Mehrotra, Sandeep Saxena

`https://link.springer.com/chapter/10.1007/978-981-97-0641-9_1`

Leadership and Achievements

- Secured 3rd position in the Predators coding competition at DAV University.
- Achieved finalist position in **Smart India Hackathon**, recognized among top national innovations.