Vishal Rajput

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GitHub Profile
LinkedIn Profile

Summary

Enthusiastic about leveraging my skills in Python, SQL, ML, AI, and cloud infrastructure to contribute to innovative and impactful solutions.

Technical Skills and Interests

Programming Languages: Python, MySQL
DS/ML/AI: Data Science, Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision, TensorFlow, PyTorch, Keras, Scikit-learn, Automation Tools and Frameworks, Data Analytics, Programming, Testing and QA
Tools & Frameworks: Pandas, NumPy, Matplotlib, Seaborn, Plotly, Flask, Power BI, GitHub, Version Control (Git), Microsoft Office (Excel, PowerPoint)
Cloud Computing & Services: Amazon Web Services (AWS)
GenAI & LLMs Frameworks: LangChain, RAG (Retrieval-Augmented Generation), OpenAI APIs, Transformation, Models and Queries

Experience

•Data Scientist Intern *Oct 2024 - Nov 2024*

Physics Wallah

– Developed a phishing classifier with 96% accuracy using machine learning techniques, improving threat detection.
– Enhanced robustness of the detection system through optimization of key metrics.
– Technologies used: Python, Scikit-learn, Git, Matplotlib.

•Data Analyst Intern *June 2024 - July 2024*

Unified Mentor

– Analyzed employee data to uncover trends, improving satisfaction by 15%.
– Streamlined data preprocessing, ensuring accuracy and resolving inconsistencies.

Personal Projects

•RAGChatBot (View Code)

Built a RAG chatbot using LLMs and vector search for accurate, domain-specific Q and A .

– Supports document uploads, semantic search, and citation-backed answers.
– User-friendly UI enables natural language Q&A over custom data sources.
– Technology Used:: LangChain, Groq API, Streamlit, FAISS

•NeuroVision: Brain Tumor Detection and Report Generation (View Code)

A real-time brain tumor detection and diagnosis system using object detection and large language models.

– Built an object detection pipeline using YOLOv11 to identify brain tumors from medical images with high accuracy.
– Integrated LLaMA-3.3-70B to auto-generate diagnostic reports from tumor regions, boosting healthcare insights with LLMs and deep learning.
– Technology Used: streamlit, YOLOv11, LLaMA-3.3-70B, Hugging Face.

•SiliconSafe: FaultDetect AI for Wafers (View Code)

Developed an ML model to detect wafer faults, improving product quality and manufacturing efficiency.

– Built an ML model achieving 98% accuracy for automated wafer fault detection, improving product quality.
– Automated deployment with CI/CD pipelines.
– Technology Used: Python, Scikit-learn, GitHub, Docker.

Hackathons And Competitions Attended

•Smart India Hackathon 2024 Finalist (Developed an IoT solution for real-time water quality monitoring).
•Amazon ML Challenge 2024 (Achieved 90th Rank among 10,63,274 impressions).
•Imagine Hackathon, PanIIT Alumni India (Designed an object detection model for brain tumors).
•Amity AI Competition – Finalist (Built "LearnAI+" with LangChain & GroqAI).
•Kaggle Competitions (Contributed to multiple Kaggle projects, leveraging advanced feature engineering).

Education

•Bachelor of Technology in Electronics and Communication Engineering *2021-25*
University of Lucknow, Lucknow CGPA: 6.9

•Central Board of Secondary Education *2019-20*
JKG School, Ghaziabad CGPA: 7.3

Courses and Certifications

Guvi Certified Python Developer, HackerRank Python (Basic), Smart India Hackathon 2024, IIT Madras & Skill India AI for India 2.0 Certification, ISRO: AI/ML Geodata Analysis, Samsung Innovation Campus, Imagine Hackathon, PanIIT Alumni India