Rohit Sumatinath Upadhye

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SUMMARY

One year of internship experience in machine learning, statistical analysis, and data visualization. Proficient in Python, R, AWS, and DevOps tools like Jenkins, Docker and Kubernetes. Delivered impactful projects, including a multimodal RAG chatbot and a machine learning-based false alarm detection system. Recognized for problem-solving abilities and delivering data-driven insights.

EDUCATION

Master of Science in Statistics	2022 - 2024
Tuljaram Chaturchand College, Baramati	**CGPA: 7.68/10**
Bachelor of Science in Statistics	2019 - 2022
Smt. Kasturbai Walchand College, Sangli	**CGPA: 8.16/10**
HSC	2018 - 2019
Sangli High-School Junior College, Sangli	**Percentage: 57.23 %**
SSC	2016 - 2017
Sangli High-School Sangli	**Percentage : 77.40 %**

TECHNICAL SKILL

• Language: Python , R

• Data Science: Machine Learning Algorithms, Deep Learning, NLP, Computer Vision, NumPy, Pandas, Matplotlib, Seaborn, NumPy, Scikit-learn, TensorFlow, Hadoop, Gen AI,

• DevOps Tools: Git and GitHub, Docker, Kubernetes, Jenkins, Terraform, Prometheus and Grafana

• Web Frameworks: Flask, FastAPI

• Platforms: AWS

• Databases: MySQL, MongoDB, Vector databases

• Other : Networking

WORK EXPERIENCE

Intern at Eiminence Institute, Sangli (Jan 2024 - June 2024)

I gained hands-on experience with cloud platforms, DevOps tools like Jenkins, Terraform, Docker, Kubernetes and networking concepts. I enhanced my skills in Python programming for data science and software development, worked with machine learning algorithms to analyze data and create models, and acquired knowledge of database management, including MySQL and NoSQL.

Project :

Title : Multimodal RAG Chatbot

Description :

- Developed a multi-PDF chatbot using advanced grounding techniques for enhanced contextual understanding.
- Integrated FAISS for efficient vector-based document retrieval.
- Utilized LangChain for seamless document parsing and query handling.
- Enhanced responses with external resources like Google Search and YouTube.
- Built a responsive Streamlit interface with multimodal input support.
- Delivered a robust and scalable chatbot solution.

Intern at Technogeeks Institute, Pune (July 2024 – December 2024)

During my internship, I enhanced skills in Python, Machine Learning, and Data Visualization, using libraries like NumPy, pandas, Matplotlib, and scikit-learn. I gained experience in SQL for data management, built machine learning models, and created dashboards to present insights, enhancing my technical expertise and practical understanding of data science**.**

Project :

Title : False alarm detection using machine learning technique.

Description :

- Processed sensor data and built a logistic regression model to predict alarms.
- Saved the trained model as a `.pkl` file for reuse and validation.
- Used Flask and Postman for API integration and testing.
- Deployed an interactive web interface with Streamlit for end-user access.

PROJECTS

Title : Analysis of Psychological Dimensions of Student Life Using Statistical Techniques

Description:
- Analyzed depression levels among college students in Science, Engineering, and Commerce fields, identifying mild to moderate depression as most prevalent.
- Conducted statistical analysis to reveal gender associations with sleep disturbances and physical exhaustion.
- Built machine learning models, with Gradient Boosting (98.43% accuracy) as the best performer.
- Identified key contributors to depression, including dejection and apathy, offering insights into student mental health.

Title : Cloud infrastructure automation with Face detection

Description :
- Built a face detection model to automate AWS EC2 instance creation and EBS volume attachment using Terraform.
- Enhanced security with user recognition for automated access control to cloud infrastructure.
- Delivered a secure, scalable, and efficient solution for cloud infrastructure automation based on user identity.

CERTIFICATIONS
- Data Analytics Course in SQL and Power BI
- Data science with python

EXTRACURRICULAR ACTIVITIES
- Organized and coordinated a Quiz Competition on Statistics and games like Chess and Sudoku during the college fest, demonstrating leadership, event management, teamwork, and problem-solving skills.

STRENGTHS

- Hardworking
- Problem-Solving Skills
- Leadership