

Keval Saud

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Professional Summary

Experienced in data science, Python development, and machine learning. Proficient in extracting insights from complex datasets, building scalable web applications, and implementing machine learning models. Currently pursuing a Master's degree in Computer Science with a focus on advanced data science and machine learning techniques.

Areas of Expertise

Programming - Data Science - Data Mining - Automation - LangChain - SQL- LLMs - Machine Learning - NLP - Requests - Communication - Problem Solving - Teamwork - Adaptability - Leadership

Professional Experience

Research Intern [Physics Department UoM](#) **Mumbai, MH, IN** *April 2024 – May 2024*

- Conducted in-depth data analysis on Coronal Mass Ejections (CMEs) using NASA WIND Database of 20 years.
- Developed and maintained Python scripts utilizing Pyspedas for efficient data extraction from the WIND API. Implemented data cleaning algorithms using Pandas, addressing null datasets (CDF) and ensuring data integrity.
- Performed exploratory data analysis (EDA) on multi-year WIND Database datasets to identify key insights and trends.
- Conducted scientific calculations to derive new parameters from WIND data, optimizing logic and time complexity. Created and optimized IP plots and visualizations with Matplotlib to present analytical findings effectively.
- Managed codebase and version control on GitHub, facilitating collaboration and maintaining project structure. Researched and reviewed relevant literature on CMEs and data analysis techniques to support project development.

Jr. Software Developer, [SquareYards](#) **Mumbai, MH, IN** *May 2022 – Jun 2023*

- Automated data extraction and processing (Data/Web-Mining) using Python requests and Selenium, **reducing manual effort by 30%** and **increasing data processing speed by 40%**.
- Led the development and integration of AI chatbots leveraging Langchain, Cohere embeddings, and OpenAI GPT-3.5, **improving customer interaction and satisfaction by 25%**.
- Optimized data storage and retrieval by transferring Cohere embeddings to vector databases (Pinecone and Weviate), **resulting in a 30% increase in efficiency**.

Freelance Python Developer, [Freelance](#) **Self-Employed** *Nov 2021 – May 2022*

- Developed predictive models using Python libraries such as pandas for data cleaning, and utilized Matplotlib for visualization.
- Trained machine learning models for prediction and classification, resulting in an average **accuracy improvement of 15% in predictive models**.
- Worked closely with international clients to understand objectives and deliver customized solutions within agreed timelines.

Education

Master of Science in Computer Science [University of Mumbai](#) **Mumbai, MH, IN** *Aug 2023 – Aug 2025*

Bachelor of Science in Computer Science [University of Mumbai](#) **Mumbai, MH, IN** *Jan 2018 – Mar 2021*

Major Projects

Web Mining **Python, Web Scrapping, Data pre-processing MongoDB**

- Developed a sophisticated web application leveraging Requests and Selenium methods for automated web scraping and robust database management..
- Included task scheduling and execution, **optimizing automation workflow up to 20% faster**.
- Achieved a significant **50% improvement in work efficiency**, accompanied by a remarkable **70% reduction in manual involvement**, demonstrating advanced automation capabilities.e.

LLM-CoversationalAI

Langchain, Cohere, Python, Weviate

- Integrated Langchain with AI chatbot, using Cohere embeddings.
- Utilized OpenAI GPT-3.5 , Llama by meta, Gemini by Google and open sorce models from HuggingFace for conversational capabilities.
- Transferred Cohere embeddings and implemented a similarity search algorithm on the vector database.

LoRA Fine Tune - Diffusion Model

Python, Diffusers, ML

- Trained a Stable Image GEN Model using LoRA, enhancing training outcomes through improved Image generation.
- Evaluated model training with **30% less consumption of GPU**, guiding future improvements.

Named Entity Recognition (NLP Model)

Python, NLP, BI-LSTM

- Implemented a BI-LSTM model for Named Entity Recognition (NER), achieving 98% accuracy.
- Preprocessed data with NumPy and Pandas. Trained the model on labeled data, optimizing hyperparameters.
- Evaluated performance using precision (97%), recall (96%), and F1-score (97%). Visualized with Matplotlib and Seaborn.

Skills

- **Technical Skills:** Programming, Data Science, Data Mining, Automation
- **Frameworks:** LangChain, Django, Flask, Streamlit, Gradio
- **Databases:** MongoDB, Cassandra, Redis, Hbase, MYSQL
- **ML-AI:** LLMs, ML, Data Science, NLP, Diffusion
- **Libraries:** Selenium, Requests, OCR, Pandas, Matplotlib, Scikit-Learn, NumPy, Computer Vision
- **Languages:** Python, SQL, JavaScript, C++, Java
- **Typesetting:** LaTeX
- **Soft Skills:** Communication, Problem Solving, Teamwork, Adaptability, Leadership

Certifications

- **ML Workshop at IITB** : Completed an intensive workshop conducted by esteemed faculty at IIT Bombay.
- Scientific Computing [Python]: Completed Advance python Skills by [FreeCodeCamp.org](https://www.freecodecamp.org/)
- Data Science 101 [Python]: Completed Basic of DS using Python.

Tools and Utilities Used

- **LLMs:** Gemini, GPT, Falcon, MPT-30B, Claude, Llama, Phi, Coral, Commad-R, Mistral
- **Dev Tools:** HuggingFace, Kaggle, Visual Studio Code, Git, GitLab, PyCharm, Visual Studio, NetBeans, Anaconda, Cohere

Declaration

I do hereby declare that all statements given by me as above are true, complete, and correct to the best of my knowledge and belief.