Keval Saud

Location: Mumbai, MH, IN

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Professional Summary

Experienced in data analysis, 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.

Education

University of Mumbai — Mumbai, MH, IN
Master of Science in Computer Science — *Aug 2023 – August 2025*

University of Mumbai — Mumbai, MH, IN
Bachelor of Science in Computer Science — *Jan 2018 – March 2021*

Experience

Jr. Software Developer, SquareYards — May 2022 – June 2023
On-site – Mumbai, MH, IN

- 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 — Nov 2021 – May 2022
Self-Employed

- 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.**
- Closely with international clients to understand objectives and deliver customized solutions within agreed timelines.

Major Projects

Web Mining Project — *Python, Data-Mining, MongoDB*

- Developed a sophisticated web application utilizing Django and Selenium, leveraging Requests and Selenium methods for automated web scraping and robust database management.
- Implemented MongoDB for efficient storage and management of scraped data, ensuring scalability and performance.
- 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.

LoRA Fine Tune - Diffusion Model — *Python, Diffusers, ML* — Source Code

- 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.

LLM-ChatBot — *Langchain, Cohere, Python, Weviate* — Source Code

- Integrated **Langchain** with AI chatbot, using **Cohere embeddings**.
- Utilized OpenAI GPT-3.5 model for conversational capabilities.
- Transferred Cohere embeddings and implemented a similarity search algorithm on the vector database.

Named Entity Recognition(NLP Model) *Python, NLP, BI-LSTM* Source Code

- Implemented a BI-LSTM model using TensorFlow 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%).**
- Demonstrated superior NER performance, visualized with Matplotlib and Seaborn. Identified entities accurately, showcasing the model's effectiveness in information extraction.

Convo-AI *Gemini-Pro, Google DeepMind* Source Code

- Built a Chat-bot AI using **Gemini-Pro** by **Google DeepMind**.
- Leveraged Gemini-Pro (Text to Text Model) for text generation.
- Achieved a **score of 90.0%**, making Gemini Ultra the first model to outperform human experts on **MMLU**.

Academic Projects

Heart Disease Prediction System *Python, Flask, MySQL, Apache server, Logistic Regression* Source Code

- Developed a web-based Heart Disease Prediction System using Python and Flask.
- Integrated MySQL for storing user data and prediction results.
- **Achieved 97% accuracy rate** in heart disease prediction.

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
- **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
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.