Keval Sing Saud

My-PortFolio | LinkedIn | GitHub |

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Jr. Software Developer [Machine Learning]

Result-driven Jr. Software Developer specializing in Machine Learning and Data Science with a proven track record of enhancing product performance and customer satisfaction. Proficient in advanced ML and DS techniques including ML models and State of Art LLMs, with expertise in data analysis and automation software development. Skilled in integrating cutting-edge technologies to create dynamic web applications, with a comprehensive understanding of popular frameworks like Django and Flask. Strong problem-solving abilities coupled with effective communication skills.

Technical Skills

Languages	:	Python, SQL, JavaScript, C++, Java
Typesetting	:	LaTeX
OS	:	Windows, Linux (Ubuntu)
ML-AI	:	State-of-the-art LLMs, ML Operations, LLM retrieval operations, Prompt Engineering
Frameworks	:	LangChain, Django, Flask, Streamlit, Gradio
Databases	:	MongoDB, Cassandra, Redis, Hbase, MySQL
Dev Tools	:	HuggingFace, Kaggle, Visual Studio Code, Git, GitLab, PyCharm, Visual Studio, NetBeans, Anaconda
Skills	:	Problem Solving, Leadership, Data Science, ML-AI, Data Mining, Programming Languages, DDMS, Communication, Automation

Experience

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

- Automated data extraction and processing (Data-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**.
- Trained Stable Diffusion Model using LoRA on proprietary datasets, enhancing product performance by 15% and reducing response time by 20%.
- Contributed to the development of a real-time property valuation model using Machine Learning algorithms, resulting in a **25% reduction in valuation time**.
- Proficient in Python, Diffusion, Model Training, ML, data modeling, and statistical analysis.

Education

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

Major Projects

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

- Developed a Chat AI using **Gemini-Pro** by **Google DeepMind**.
- Leveraged Gemini API for content generation using Google Colab.
- Utilized Gemini-Pro (Text to Text Model) for text generation.

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 similarity search algorithm on the vector database
- Enhanced conversational AI and user experience.

Automation Scraping Software *Python, Django, MongoDB*

- Developed a web app using Django for automation scraping and DB management.
- Utilized MongoDB for storing and managing scraped data.
- Implemented Celery for task scheduling and execution.
- Demonstrated expertise in Django, Django Celery, and MongoDB.

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

- Trained Stable Diffusion Model using LoRA on proprietary dataset.
- Objective: Enhance company's product outcomes through improved Image generation.
- Evaluated model performance with accuracy.
- Generated valuable design for product recommendations and user engagement.

Minor 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.
- Demonstrated proficiency in Python, Flask, MySQL, and Apache server.
- Deployed on GitHub Pages via GitHub Actions.

Name-Entity-Recognition-NLP *Python, ML, Matplotlib* Source Code

- Implemented a Named Entity Recognition (NER) system using BI-LSTM.
- NER is a critical information extraction task.
- Deployed on GitHub Pages via GitHub Actions.

Steganography Web App *Python, Cryptography* Source Code

- Implemented Steganography for hiding secret data within a file or message.
- Combined steganography with encryption for added data protection.
- Deployed on GitHub Pages via GitHub Actions.

Certifications

- Scientific Computing [Python]
- Data Science 101 [Python]

Tools and Utilities Used

LLMs : Gemini, GPT, Falcon, MPT-30B, Claude, Llama, Phi

Technologies : HugginFace Space, Replicate, Vector DB, Difffusion, LoRA, Git, Co-pilot

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.