Keval Sing Saud

My-PortFolio | LinkedIn | GitHub | Hackerrank

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Software Developer [Machine Learning]

I am a dedicated Software Developer specializing in Machine Learning with a strong background in Data Science and Automation Software Development, backed by a proven track record of over 1 year.

- Proficient in advanced machine learning techniques, including Diffusion models and Latent Linear Models (LLM), with a comprehensive understanding of their inner workings.
- Experienced in utilizing cutting-edge technologies such as HTML, CSS, Python, Pandas, and various data science tools. I have a deep understanding of popular frameworks like Django and Flask, leveraging their capabilities to create dynamic and feature-rich web applications.

Technical Skills

Languages	:	Python, R, SQL, JavaScript
ML	:	Model Training, Diffusion, Prediction, Classification
Data Analysis	:	Pandas, NumPy, Matplotlib
Data-Visualization	:	Plotly, ggplot
Frameworks	:	Django, Flask, Streamlit
Libraries	:	Requests, Selenium, Pandas, Folium, OCR, Matplotlib, bs4
Databases	:	MongoDB, Cassandra, Redis, Hbase, MySQL, PostgreSQL
Dev Tools	:	Kaggle, Visual Studio Code, Git, Git-lab, PyCharm, Visual Studio, NetBeans, Anaconda
Computer Sc	:	Algorithms, DBMS, Programming, Software Testing, Software Development, ML, Data Structures
Skills	:	Problem Solving, Leadership, Data Science, Programming Languages, Matplotlib, Databases, Communication, Scrapper, Automation, Data Analysis, Web Scraping,SQL, Data Management, Python (Programming Language)

Experience

Jr. Software Developer [ML Team] June 2022 – Present
SquareYards *On-site – Mumbai, MH, IN*

- Integrated **Langchain** with AI chatbot, incorporating **Cohere embeddings** for contextual understanding and leveraging **OpenAI GPT-3.5** for conversational capabilities.
- Transferred Cohere embeddings to a vector database (Pinecone and Weviate) for efficient storage and retrieval.
- Trained **Stable Diffusion Model** using **LoRA** on proprietary dataset, enhancing product performance.
- Developed **Retrieval QnA** bot using Langchain LLM chains and vector store with **Pincone** and **Weviate**.
- Proficient in Python, Diffusion, Model Training, ML, data modeling, and statistical analysis.

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

- Utilized **QGIS** and **ArcGIS** for Geo-referencing and Digitization.
- Developed **Automated Web Scraper** and Analysis System using Python frameworks (**Requests, Selenium, Django**).
- Converted the automated Web scraper into a Django web application, utilizing **MongoDB** for backend storage.
- Achieved 60% improvement in data processing speed, accuracy, and reduced manual work through optimization strategies.
- Troubleshooted and fixed bugs in the software to ensure smooth operation.
- Proficient in Python, Selenium, Request, SQL, Django, Flask, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Tableau, and Git.

Education

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

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.
- Implemented with Python 3.9+, Jupyter, and securely stored API key.
- Provided a quickstart guide for Gemini API setup.
- Project documentation: Convo-AI.

AI-ChatBot LLM — *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 to a vector database.
- Implemented similarity search algorithm on the vector database.
- Gained expertise in vector database management.
- 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.
- Designed with MVC pattern for structured code organization.
- Integrated various web scraping techniques.
- 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

- Kaggle, Github, Git
- MS Excel, NetBeans, R Software, Cryptography Tools, SQL Server 2008, Vs Code, Unity, Windows 7, 8, 10, Linux, MS-Office, Visual Studio, XAMMP, Web Technologies - HTML, Flask, CSS, Bootstrap, Django, Selenium, Requests, OCR, etc, Cassandra, redis, Hbase.

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.