

Keval Sing Saud

My-Portfolio | [LinkedIn](#) | [GitHub](#) |

Location: Mumbai, MH, IN

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EDUCATION

University of Mumbai

Master of Science in Computer Science

Mumbai, MH, IN

Aug 2023 – August 2025

University of Mumbai

Bachelor of Science in Computer Science

Mumbai, MH, IN

Jan 2018 – March 2021

EXPERIENCE

Jr. Software Developer, SquareYards

On-site – Mumbai, MH, IN

May 2022 – June 2023

- 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**.

Freelance Python Developer

Self-Employed

Jan 2022 – May 2022

- * Developed predictive models, Flask Web app for client-specific needs, resulting in an average accuracy improvement of 15%.
- * Collaborated closely with some international clients to understand objectives and deliver tailored solutions within agreed timelines.

MAJOR PROJECTS

Automation Scraping Software

Python, Data-Mining, MongoDB

- * Developed a sophisticated web application utilizing Django and Selenium, leveraging Requests methods for automated web scraping and robust database management.
- * Implemented MongoDB for efficient storage and management of scraped data, ensuring scalability and performance.
- * included Celery for task scheduling and execution, optimizing automation workflow upto 20% faster.
- * Achieved a significant **50% improvement in work efficiency**, accompanied by a remarkable **70% reduction in manual involvement**, demonstrating advanced automation capabilities.

LLM-ChatBot

Langchain, Cohere, Python, Weviate

[Source Code](#)

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

Convo-AI

Gemini-Pro, Google DeepMind

[Source Code](#)

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

LoRA Fine Tune - Diffusion Model

Python, Diffusers, ML

[Source Code](#)

- * Trained 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.

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.

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**. Integrated embedding layers and bidirectional LSTM layers for context capture.
- * 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.

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 Wokshop at IITB
 - * Completed an intensive workshop conducted by esteemed faculty at IIT Bombay.
 - * Enhanced proficiency in predictive analytics and data-driven decision-making, resulting in a 20% increase in efficiency in analyzing and interpreting complex datasets.
- Scientific Computing [Python]
- Data Science 101 [Python]

TOOLS AND UTILITIES USED

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

Dev Tools : HuggingFace, Kaggle, Visual Studio Code, Git, GitLab, PyCharm, Visual Studio, NetBeans, Anaconda

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.