

Deepanraj Sakthivel

Machine Learning Engineer

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SUMMARY

A motivated and results-oriented fresher with a strong academic background in Machine Learning and Data Science, eager to embark on a career path where I can leverage my theoretical knowledge and analytical skills to contribute to the development of cutting-edge solutions. Committed to continuous learning and professional growth, I aim to make a meaningful impact in the field while adhering to the highest standards of integrity and professionalism.



SKILLS

Languages: Python, JAVA, C, JavaScript, HTML, CSS, SQL

Tools and frameworks: Tensorflow, NumPy, Pandas, Flask, Streamlit, Scikit-learn, PowerBI, Tableau, React, MongoDB, MySQL Figma, node.js, pyspark, Langchain, RAG.

Other: Version Control, Data Analysis, Machine Learning and Deep Learning, Object oriented programming, Problem solving.



PROJECTS

RAG-Based PDF Querying with OpenAI's GPT

Web chat app with Streamlit and Langchain implements RAG framework for PDF querying via OpenAI's GPT. FAISS indexes ensure quick snippet retrieval for enhanced conversations.

Streamlit Langchain RAG framework OpenAI GPT FAISS

Implementing MLOps for Wine Quality Regression Model using XGBoost

This project employs MLOps for a Wine Quality Regression Model with XGBoost, involving environment setup, version control with Git and DVC, and testing with Tox and Pytest to ensure model robustness..

Python MLOps XGBoost DVC Git CI

IPL Data Dive: Power BI Dashboard

The IPL Dashboard in Power BI offers analysis of Indian Premier League cricket data through interactive charts and graphs, empowering users with valuable insights.

PowerBI Visualization Data Analysis Dashboard

Real-Time Gesture Recognition

This project showcases real-time action recognition with MediaPipe and OpenCV, classifying hand and body gestures into predefined actions like "thanks" and "hello" through user interaction.

MediaPipe OpenCV Python Action Recognition Deep Learning LSTM



Experience

Fabromen | Web Development Intern March 2022 - May 2022 | Remote, Erode, Tamil Nadu, India

- Collaborated on a static website development project at **JBROS (Fabromen subsidiary)**.
- Specialized in front-end development and contributed to **UX/UI design** using **Figma**.
- Translated designs into **HTML code**, optimizing for **laptop view**.
- Overcame challenges, showcasing **adaptability** and **problem-solving skills**.



EDUCATION

Artificial Intelligence and Data Science - 8.70/10.00 - 2024*

Bachelor, Kongu Engineering College - Erode, Tamil Nadu



Course Work

- Data Structures and Algorithms
- Database Management System
- Machine Learning
- Deep Learning



Achievements

- I secured the **second position** in a **departmental hackathon** during my **second year of study** by **designing** a **creative text-to-speech conversion solution**.
- I have **successfully solved over 200 problems** on **LeetCode**, demonstrating my **strong problem-solving skills** and **proficiency in algorithmic problem-solving techniques**.



Membership

- I am a member of the **Institute of Engineers (India)**, promoting **engineering excellence** and **innovation**.