

# Deepanraj Sakthivel

Machine Learning Engineer

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LeetCode **Deepanraj-07**



## 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, MongoDB, MySQL Figma, 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. [Github](#)

[Streamlit](#) [Langchain](#) [RAG](#) [OpenAI GPT](#)

### 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. [Github](#)

[Python](#) [MLOps](#) [classification](#) [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. [Github](#)

[PowerBI](#) [Visualization](#) [Data Analysis](#) [Dashboard](#)

### Real-Time Gesture Recognition

This project demonstrates real-time action recognition utilizing LSTM categorizing hand and body gestures into predefined actions such as "thanks" and "hello" through user interaction. [Github](#)

[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



## Area of Interest

- Data Structures and Algorithms
- 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 250 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**.