

# Praveenraj P

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## Objective

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B.Tech AIML graduate with strong foundations in Python, SQL, machine learning, and web technologies. Seeking a Software Development role to contribute to scalable application development, backend engineering, and data-driven solutions within high-impact enterprise systems.

## Education

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**Rajalakshmi Engineering College:** B.Tech in Artificial Intelligence & Machine Learning    Sept 2021 – May 2025

- **Coursework:** Object Oriented Programming, Web Development, Machine Learning, Data Structures & Algorithms, SDLC, Database Management Systems.

## Skills

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**Programming:** Python, C, SQL

**Tools & Frameworks:** Git, GitHub, Flask, REST APIs

**ML/AI:** Machine Learning, NLP, CNN

## Key achievement

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**Senior Associate Member - ML,** IEEE Computational Society, REC

- Contributed to ML projects and helped organize workshops and seminars for knowledge sharing.
- Led and participated in events, promoting collaboration on innovative ML initiatives within the society.

## Projects

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### Financial Portfolios Optimization

- Developed an end-to-end stock prediction and recommendation system using LSTM and sentiment analysis.
- Integrated Flask APIs to serve real-time predictions and implemented growth-based comparison across multiple stocks.
- Tools Used: Python, TensorFlow, Hugging Face, Pandas, NumPy, Plotly

### Gesture Controlled Gaming

- Built a real-time gesture-controlled gaming interface using OpenCV and MediaPipe hand tracking.
- Trained a CNN model for gesture classification and mapped gestures to virtual keyboard inputs.
- Tools Used: Python, OpenCV, MediaPipe, CNN

### Blog Website

- Built a dynamic blog website with backend functionality to handle user interactions and content creation.
- Set up an automated system to send weekly newsletters, ensuring timely and relevant content delivery to subscribers.

### Next Word Prediction

- Built an NLP-based next-word prediction model using sequence learning techniques.
- Preprocessed text data and optimized model performance for improved contextual accuracy.

## Certification

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**PrepInsta Certification:** Python Nanodegree Certification - 2024

**NPTEL Certification :** Responsible & Safe AI Systems -2024