Rajesh Burman

ranjanaburman18@gmail.com   linkedin.com/in/rajesh-burman-574426280   github.com/RajMay

Skills

Languages: Python, JavaScript, C++, C

Web Development: JavaScript, React, Tailwind CSS, Node.js, Express.js

AI/ML: TensorFlow, NLP, PyTorch,FastAPI, Flask

Cloud: AWS,Vercel

Databases: SQL, MongoDB

LeetCode Profile: leetcode.com/u/RajeshDK

Education

Techno India University
2021 - 2025
B.Tech in Computer Science and Engineering
CGPA: 8.3

Indian Institute of Technology Madras
2023 - 2026
B.Sc in Data Science
CGPA: 7.0

Experience

Backend Developer, Finsy   *Aug 2024 - Present*

- Developed core backend logic for a finance platform using Django, supporting secure transactions for 1000+ users and handling up to $0.1 million in daily transactions.
- Led UI/UX design and development with React, resulting in a 20% increase in user satisfaction and a 15% improvement in user retention.
- Built and integrated RESTful APIs, managed database architecture, and implemented advanced security protocols, achieving zero data breaches and a 30% reduction in response time.

Research Intern, Parimal Lab, IIT Roorkee   *June 2023-july 2023*

- Designed and implemented an OCR model with deep learning libraries, improving text extraction accuracy for Hindi and English text to 93
- Integrated PyTorch and Transformers, enhancing recognition accuracy by 25interface for real-time processing, reducing processing time by 40

Projects

Automatic Number Plate Recognition (ANPR) and Facial Recognition System (FRS) *Mar 2023 - Jul 2023*

- Developed a high-accuracy ANPR and FRS for the Kavach Hackathon, achieving a 98% accuracy rate and processing speed under 1 second per image.
- Implemented advanced image preprocessing techniques, improving detection performance under low-light and complex backgrounds.
- Integrated the system with a real-time database to store and retrieve vehicle and facial data, enabling seamless tracking and security reporting.

AI Chess Bot

- Developed an AI chess engine in Python using the Negamax algorithm with alpha-beta pruning, reducing computation time by 40% and achieving sub-200ms move responses.
- Built a custom evaluation function, boosting the bot's win rate to 72% in 500+ games against Stockfish.
- Created a PyQt5 desktop UI enabling real-time play for 150+ users, increasing session duration by 30% and repeat engagement by 25%.

Doorley Jobs

- Built an AI-driven, responsive web app with integrated payment processing, using Node.js, Express.js, MongoDB, and React; capable of handling 100+ monthly active users, leading to increased user engagement due to personalized recommendations and predictive analytics.

AI Chatbot

- Developed an intelligent AI chatbot with TensorFlow, NLP, Python, and TFLearn, achieving 92% accuracy in intent recognition and a 4.5-star user satisfaction rate. Integrated sentiment analysis for personalized responses, boosting user retention by 30%.

Fake News Detection System

- Built and deployed a model pipeline with advanced NLP techniques for fake news detection, achieving 90% accuracy and reducing false positives by 20%.