

# Rajesh Burman

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## Skills

**Languages:** Python, JavaScript, C++, C

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

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

**Databases:** SQL, MongoDB

**Cloud:** AWS, Vercel

**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 25% interface 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%.