

PRASHANT RAJ

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SUMMARY

Pre-final year BTech Computer Science student building AI products end-to-end. Currently shipping agentic systems with LangGraph + Groq, MCP integrations for Claude/AI assistants, and ML-backed dashboards. Sustaining a 63-day LeetCode streak alongside product work. Open to AI engineering internships and serious build collaborations.

EDUCATION

B.Tech in Computer Science Engineering

C.V. Raman Global University, Bhubaneswar, Odisha

(2024-2028)

CGPA: 8.3 (Overall) — SGPA: 9.2 (Latest Semester) — Pre-final Year

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C++

AI / ML: LangChain, LangGraph, RAG, TensorFlow, Keras, scikit-learn, pandas, NumPy, OpenAI API, Anthropic API, Groq, Tavily, HuggingFace, OpenCV

Frameworks: React, Next.js, FastAPI, Streamlit, Vite

Tools & Cloud: Git, Docker, GitHub Actions, Vercel, Supabase, Google Cloud, Streamlit Cloud, Antigravity IDE

PROJECTS

AI Research Assistant — *LangGraph, Groq, Tavily, Streamlit*

Live — Code

- Multi-step research agent that decomposes vague queries into focused sub-questions, then searches, filters, and synthesizes source-backed reports with clickable citations (Planner → Searcher → Filter → Summarizer pipeline).
- Implemented batched LLM calls cutting API cost, latency, and rate-limit pressure by processing all sources in a single request.

MCP Discord Bridge — *TypeScript, MCP Protocol, Discord API*

Code

- Built a Model Context Protocol server exposing Discord control to AI assistants like Claude. Reads messages, creates and deletes channels, sends messages via standardized typed tool-use.

LSTM Stock Price Forecaster — *TensorFlow, Keras, Streamlit, yfinance, Plotly*

Live — Code

- Trained an LSTM neural network on historical OHLC market data with rolling-window backtesting, served via a Streamlit dashboard pulling live yfinance data with interactive Plotly visualizations.

LeetCode Tracker — *React, Vite, Supabase, Chrome Manifest V3*

Code

- Chrome MV3 extension tracking time-on-problem with 60s Supabase sync, paired with a React dashboard (stats, daily activity charts, calendar heatmap, friends leaderboard) backed by Row Level Security.

AI-Powered Surveillance Drone — *Python, OpenCV, Mission Planner*

- Computer-vision survivor detection pipeline for disaster-response drones, integrated with Mission Planner to autonomously mark potential victim locations on operator maps.

CERTIFICATIONS

CS50x: Introduction to Computer Science — Harvard University

2024. Data structures, algorithms, memory management, Python, SQL, AI fundamentals.

ACHIEVEMENTS

Winner, SIH Internal Hackathon 2025

- Developed a drone-based disaster surveillance pipeline for emergency response scenarios.

LeetCode Grind

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- 79 problems solved — 63-day active streak — sustained alongside product work.