

PRATIK RANA

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EDUCATION

Plaksha University

Bachelor of Technology, Computer Science & Artificial Intelligence,

Coursework: DSA, Distributed Systems, AI/ML, Computer Networks, Operating Systems, Software Engineering

Mohali, India

August 2022 - May 2026

EXPERIENCE

Wayground (Quizizz) - EdTech platform with 65 million users

Software Engineer Intern - Platform

May 2025 - July 2025

Bengaluru, India

- Improved page load performance by 8% through feature flag cleanup, removing 215 LOC and archiving 155 flags
- Reduced manual bug-fixing by 75% by developing AI automation system that fixes 250+ production issues/month
- Achieved 82.5% PR merge rate & saved 40+ developer hrs/wk implementing FastAPI dashboard & slack alerts
- Deployed the containerized solution on AWS EC2 with Docker, supporting automated large-scale processing

Havells India Ltd.












Software Engineer Intern - ML

May 2024 - July 2024

Noida, India

- Developed sales forecasting model improving prediction accuracy by 12% for inventory management of 90+ SKUs
- Implemented grid search optimization to identify best-performing models, reducing computational time by 40%
- Collaborated with cross-functional teams to deploy ML REST APIs in production using scalable architecture
- Processed large-scale sales data using distributed computing principles for real-time inventory predictions

ACHIEVEMENTS

-  **Competitive Programming:** Global Rank 304 in CodeChef 158D out of 26000+ participants [Link](#)
-  **Problem Solving:** 400+ problems solved across GFG and Leetcode platforms (LeetCode Rating: 1642) [Link](#)
-  **Smart India Hackathon 2024:** Top 5 Nationwide for Gas Authority of India Limited's problem statement [Link](#)
-  **Flipkart Grid 6.0:** Top 0.005% out of 500,000+ participants in national software engineering competition [Link](#)
-  **Hackerearth ML Challenge'25:** Global Rank 7 out of 50,000+ participants in ML competition [Link](#)
-  **Innovate with GoStats:** National Winner of Data Viz. Hackathon organized by Ministry of Stats [Link](#)
-  **Airtel Scholar:** Awarded by the Bharti Airtel Foundation. One of the 158 scholars nationwide [Link](#)
-  **UN Fellow:** Chosen from 44,000+ global applicants for tech solution addressing the United Nations SDGs [Link](#)
-  **Reliance Scholar:** Selected out of 40,000+ applicants nationwide for academic & leadership excellence [Link](#)
-  **Open Source Contributor (GSSOC'24):** Resolved 25+ issues across 8 organizations [Link](#)
-  **Project Leadership:** Led team of 6 developing healthcare platform, recognized at UN & IIT Mandi [Link](#)

PROJECTS

- Proofig** (Automated Grade Verification for University Admissions | Next.js, LLMs, NLP, PostgreSQL) [Link](#)
- Engineered full-stack web application using distributed architecture for student admissions document verification
 - Reduced document validation errors by 30% using Claude Sonnet 3.5 by optimizing model hyperparameters
 - Implemented real-time progress tracking system, reducing admissions team workload by 35 hours/week
 - Deployed scalable solution on AWS processing 500+ applications daily with 99.9% uptime
- ImageCraft** (Full-stack AI Image Processing Platform | Pytorch, Flask, React, Docker | Open Source) [Link](#)
- Implemented image classification achieving 82% accuracy using MobileNetV3, fine-tuned on 15,000+ images
 - Created image-to-text captioning model (0.74 BLEU score) using ViT-GPT-2 architecture on COCO dataset
 - Built distributed Flask backend with Celery for concurrent request handling, reducing response time by 3x
- PodPit** (AI-driven podcast generation platform | Llama2, React, Flask, TailwindCSS | HackPlaksha'24) [Link](#)
- Engineered end-to-end AI platform generating 20-minute podcasts in 3 minutes using natural language processing
 - Integrated LLM for high-quality text generation and implemented speech segmentation algorithms
 - Designed scalable system architecture handling concurrent user requests with optimized data storage solutions

SKILLS

Languages: Python, C++, Java, Go, SQL (PostgreSQL), JavaScript, Bash (Shell Scripting)

Tech: TensorFlow, PyTorch, React, FastAPI, AWS, Docker, PostgreSQL, MongoDB, Git, Unix/Linux, TCP/IP

Focus: Machine Learning, Distributed Systems, API Development, Information Retrieval, Natural Language Processing