

# PRATIK RANA

Chandigarh, India

☎ (+91) 8580813320

✉ [pratikrana863@gmail.com](mailto:pratikrana863@gmail.com)

🌐 [linkedin.com/in/ranapratik](https://linkedin.com/in/ranapratik)

</> [leetcode.com/ranapratik](https://leetcode.com/ranapratik)

## EDUCATION

**Plaksha University, Mohali**

Mohali, India

*Bachelor of Technology, Computer Science & Artificial Intelligence, CGPA: 7.76,*

*August 2022 - May 2026*

*Coursework: DSA, DBMS, ML, Computer Networks, Operating Systems, OOPS, Software Engineering, Data Analysis*

## EXPERIENCE

**Havells India**

June 2024 - July 2024

*Software Engineering Intern*

*Noida, India*

- Developed SARIMA-based forecasting model, improving prediction accuracy by 12% for inventory management
- Conducted exploratory data analysis to prepare sales data of 90+ SKUs for simulating and modelling
- Implemented grid search, optimizing model parameters, to identify the best-performing model for each SKU
- Collaborated with cross-functional teams to deploy Machine Learning model REST APIs in production
- **Skills:** Backend Development, TensorFlow, Statsmodel, Frontend, GCP, Javascript, Python

**Smart Code Labs**

May 2023 - July 2023

*Data Science Intern*

*Ludhiana, India*

- Engineered a churn prediction model using random forest algorithm, improving customer retention by 5%
- Optimized data cleaning pipelines with parallel processing, reducing processing time from 5 to 2 hours per week
- Created real-time dashboards visualizing key metrics, enabling an 8% revenue increase for a retail client
- **Skills:** Data Science, API development, Cloud computing, Deployment, Software Scaling.

## SKILLS

**Languages:** Python, C/C++, Bash (Shell Scripting), HTML, CSS, SQL (PostgreSQL), JavaScript

**Frameworks:** Django, Flask, React, Next.js, PyTorch, TensorFlow, Pandas, Celery

**Tools/Tech:** Unix/Linux, Git, GCP, AWS (S3, EC2), Postman, MongoDB, Data Analysis, API Development, OOPS

## PROJECTS

**Proofig** (*Automated Grade Verification for University Admissions / Next.js, LLMs, NLP, PostgreSQL*)

[Link](#)

- Engineered a Google Cloud Vision powered full stack web app for student admissions document verification
- Reduced document validation hallucinations by 30%, using Claude Sonnet 3.5 & tuning Hyperparameters
- Implemented features like real-time progress tracking, reducing admissions team workload by 35 hrs/week
- Deployed the solution for Plaksha University 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 (82% accuracy) using MobileNetV3, fine-tuned on 15000+ images
- Created an image-to-text captioning model (0.74 BLEU) score based on ViT-GPT-2 and COCO dataset
- Built a distributed Flask backend with Celery for concurrent request handling, 3x reduced response time

**PodPit** (*AI-driven podcast generation platform / Llama2, React, Flask, TailwindCSS / HackPlaksha'24*)

[Link](#)

- Engineered an end-to-end AI podcast platform that generates 20-minute podcasts in just 3 minutes
- Integrated NLP techniques using LLMs for high-quality text generation and speech segmentation.

## ACHIEVEMENTS



**Competitive Programming:** Attained a Global Rank 304 in CodeChef 158D out of 26000+

[Link](#)



**Problem Solving:** Regularly solving DSA - Over 400 Problems solved across LeetCode (1642 Rating)

[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](#)



**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 5,00,000+ participants nationwide at the Flipkart Grid 6.0 Contest

[Link](#)



**Hackerearth ML Challenge'25::** Attained a Global Rank 7 out of 50,000+ participants

[Link](#)

## LEADERSHIP & EXTRACURRICULAR

**Open Source | GSSOC'24 – Contributor**

- Contributed to more than **8 organizations**, resolving 25+ issues in AI/ML and Python backend projects. [Link](#)

**Healthec.AI – Project Lead**

- Led a team of 6 and developed a remote healthcare platform, to increase healthcare access in rural India.
- Recognized at **United Nations** and **IIT Mandi's** Himalayan Startup Trek 2023. [Link](#)