

RAKSHIT DABRAL

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SUMMARY

- AI and Backend Developer Intern at Untitled Ventures, contributing to **Lagoon**, a recruiting software, by developing scalable systems and reduced **recruiter screen time by 90% and resume extraction time by 66.67%**.
- Finalist in **Smart India Hackathon 2024**, ranked **Top 12 nationwide** in **ISRO Bhartiya Antariksh Hackathon '24**
- **Internshala-certified Machine Learning Professional** with strong skills in building predictive models, deep learning models, and delivering insights through real-world projects.

WORK EXPERIENCE

AI and Backend Developer Intern

Untitled Ventures | October 2024 – Present | Delhi/Remote (Hybrid)

- Worked on **Lagoon**, a robust recruiting software, developing a scalable filtering system to optimize candidate search.
- Designed and implemented a resume extraction pipeline using Large Language Models (LLMs) and Fast API for high-accuracy information retrieval **reducing time by 66.67%**.
- Designed highly precise prompt for the gemini model to increase the resume parsing and feature extraction from **60% to 95+%**
- **Integrated Mixpanel and PostHog** for website analytics

Google Cloud Generative AI

SmartInternz | September 2024 – October 2024 | Delhi/Remote (Hybrid)

- Worked on **advanced LLM model like gemini flash , gemini pro , Vector Searches**
- Worked on **advance prompt engineering** for refined model output

Machine Learning Intern

Internship Studio | August 2024 – September 2024 | Delhi/Remote (Hybrid)

- Worked on different machine learning model like **Linear regression , Decision Tree, Random Forest etc**
- Explored simple **Artificial Neural Network** and used it for youtube ad view prediction model

EDUCATION

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, New Delhi, India Expected Graduation 2026
B.tech in Artificial Intelligence & Data Science; **8.930 SGPA** (till 5th SEMESTER)

CRPF Public School , New Delhi, India
Intermediate (2022), CBSE Board: **83%**

SKILLS

- **Core Technical Expertise:** Python, Tensorflow, Keras, Computer Vision, NLP, Machine Learning, Deep Learning, Data Analysis, Data Science, Prompt Engineering, Data Structures & Algorithms
- **Tools & Platforms:** Git, GitHub, Vercel , Render , Cursor, Heroku , Aws
- **Familiar Technologies:** React.js, Node.js, C, C++, Fast API, MySQL, MongoDB, Rest API , JavaScript
- **Soft skills:** Teamwork, Leadership, Problem-Solving, Communication, Adaptability

PROJECTS & PUBLICATIONS

Rooftop Solar Energy Potential Map [\(Link\)](#)

Skills used: Python, Deep Learning, Machine Learning, Python Libraries

- Achieved **97.01% accuracy** using YOLOv8-seg and ResNet50-U-Net models for building footprint extraction.
- Calculated rooftop areas for solar energy estimation, enabling strategic solar panel placement.
- Wrote the code and **designed algorithm to tackle the shadow and building height** while calculating the solar energy potential

Kisan Seva: Revolutionizing Farming with AI & IoT [\(Link\)](#)

Skills used: React Native, Firebase, Python, Machine Learning, Python Libraries

- Built IoT-integrated real-time monitoring system, reducing manual oversight by **100%** and optimizing irrigation schedules.

- Wrote entire frontend for the mobile application using React Native
- **Integrated Gemini Api** to add farmer specific plant disease prediction with styled markeddown response for enhanced ui experience
- Deployed a KNN model for water prediction model , achieving **70% accuracy**

Sign Language Recognition [\(Link\)](#)

Skills used: Python, Open CV, Tensorflow, Python Libraries

- Developed **CNN Architecture with VGG16 as based model**
- Processed different sign language images and used VGG16 as base layer to extract important feature efficiently (low level edges and textures) increased the **accuracy to 99.4%**

ACHIEVEMENTS AND CERTIFICATIONS

- **ISRO Bhartiya Antariksh Hackathon – 2024** | [View LinkedIn Post](#) with photos of the certificate and award
Secured Top 12 nationwide among 3,500+ teams and 34,000 students.
- **Internshala training Machine Learning Professional Certificate** | [CERTIFICATE](#)
- **Smart India Hackathon 2024: SMART INDIA HACKATHON 2024 FINALIST** | [CERTIFICATE](#)