

ABHIGYAN RANJAN

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SUMMARY

- AI/ML Intern with experience at **Untitled Ventures and Damco Solutions**, contributing to scalable backend systems, **reducing resume extraction time by 66.67%**, and developing AI models, including **Object Detection (96% precision)**, **Image Classification (99.21% accuracy)**.
- Finalist in **Smart India Hackathon 2024**, ranked **Top 12 nationwide** in **ISRO Bhartiya Antariksh Hackathon '24** and **1st Runner-up in Quant ML'25** by IIT Jodhpur.

WORK EXPERIENCE

AI and Backend Developer Intern

Untitled Ventures | October 2024 –February 2025 | 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%**.
- Built an advanced filtering system using Node.js and NLP, Express, and caching techniques, reducing **recruiters' screen time by 90%**. Created a custom query fusion system (similar to RAG Fusion) to enhance search accuracy and speed for users.

AI/ML Intern

Damco Solutions | February 2025 – Present | Noida/Remote (Hybrid)

- Object Detection Model achieving **96% precision** and an Image Classification Model with **99.21% accuracy**.
- Developed scripts for integrating **Pixtral-12B** model for enhancing prediction workflows.
- Implemented a RAG (Retrieval-Augmented Generation) pipeline for document retrieval.

EDUCATION

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, New Delhi, India Expected Graduation 2026

- B.tech in Artificial Intelligence & Data Science; 8.9 SGPA (till 5th SEMESTER)

ST. XAVIER'S SR. SEC. SCHOOL, New Delhi, India

- Intermediate (2022), CBSE Board: 89%

SKILLS

- Core Technical Expertise:** Python, Tensorflow, Keras, Computer Vision, NLP, Machine Learning, Deep Learning, Data Analysis, Data Science, Fine-tuning LLMs, Data Structures & Algorithms, Prompt Engineering.
- Tools & Platforms:** Git, GitHub, QGIS, Vercel, Render
- Familiar Technologies:** React.js, Node.js, C, C++, Fast API, MySQL, MongoDB
- 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.
- Designed the full prediction pipeline, improving **IOU from 0.85 to 0.92** using post-processing.
- Calculated rooftop areas for solar energy estimation, enabling strategic solar panel placement.

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.
- Deployed a Random Forest model for NPK fertilizer prediction, achieving **R² = 0.93**.

Predicting Falcon 9 First-Stage Landing Success [\(Link\)](#)

Skills used: Python, Folium, Plotly Dash, Machine Learning, Python Libraries

- Developed and compared four models: Logistic Regression (83.33% accuracy), KNN (77.78% accuracy), Support Vector Machine (83.33% accuracy), and Decision Tree (77.78% accuracy).
- Processed SpaceX launch data via API and web scraping; visualized results with interactive Folium maps and Plotly Dash dashboards. Achieved the best performance with Logistic Regression, delivering accurate predictions for landing success.

Big Data in Data Science for Real-Time Stock Market Analysis [\(Link\)](#)

Published in: Journal Publication of International Research for Engineering & Management (JOIREM)

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.
- IBM Data Science Professional Certificate | [CERTIFICATE](#)**
- 1st Runner-up in Quant ML'25** by IIT Jodhpur
- Smart India Hackathon 2024: SMART INDIA HACKATHON 2024 FINALIST | [CERTIFICATE](#)**