Rakesh GR

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Summary

Rakesh G R, from Bangalore, is pursuing a B.Tech in Computer Science Engineering (Data Science) at Alva's Institute. Skilled in Python, web design, cloud computing, cybersecurity, and data analysis, he has completed an internship focused on garbage classification using convolutional neural networks (CNN). Rakesh's portfolio includes the AeroBuy e-commerce project showcasing his expertise in Python Flask, MySQL, and full-stack development. Recently, he participated in the NASA International Space Apps Challenge 2025, where he contributed to the creation of "Atmos," a prototype web application integrating real-time Air Quality Index (AQI) and weather data using AI, cloud computing, and machine learning, demonstrating strong capabilities in innovative problem-solving and data-driven solutions.

Education

Alva's Institute of Engineering and Technology	**Mangalore**
B.Tech in CSE (Data Science), GPA: 7.6	*2023–Present*
Jnana Jyothi Pu College	**Bangalore**
Pre-University in PCMB, 77%	*2021–2023*
Yashas Vidya Kendra	**Bangalore**
High-School (10th), 87%	*2020–2021*

Technical Skills

Languages: Python, HTML, SQL, CSS

Frameworks: Flask, Bootstrap, Responsive Web Design

Databases: MongoDB, MySQL

Core Domains: Cloud Computing, Cyber Security, Data Structures, Machine Learning (CNN)

Experience & Projects

Ongoing Project **Bangalore**
Airport Baggage Handling System (RFID-based) *Present*
- Designing an RFID-based baggage handling solution to prevent luggage misrouting and enhance operational efficiency at airports.
- Developing a flight-specific verification system where handheld RFID scanners cross-reference baggage tags against aircraft identifiers.
- Implementing a real-time notification mechanism to update passengers on baggage status, significantly reducing lost luggage incidents.

Team Innovision **Bangalore**
Ideathon Participant – NASA International Space Apps Challenge *Nov 2025*
- Developed "Atmos," a web-based prototype dashboard integrating real-time NASA TEMPO and OpenAQ data.
- Built AI forecasting models for pollution predictions and personalized health alerts.
- Awarded "Galactic Problem-Solver" certificate for innovative public health solutions.

University Project **Mangalore**
Project Lead – Aero Buy *July 2025*
- Spearheaded "Aero Buy," an e-commerce platform using full-stack development principles.
- Implemented Python Flask for robust backend functionality and interactive frontend.
- Integrated MongoDB for efficient product listing, user authentication, and order management.

Edunet Foundation **Remote**
Intern *June 2025 – July 2025*
- Engineered a Garbage Classification system using Transfer Learning to automate waste sorting.
- Fine-tuned pre-trained CNN models (ResNet, VGG, MobileNet) on custom datasets to categorize waste into biodegradable, recyclable, and non-recyclable classes.

Certifications

- Google Cloud Workshop (TechVritti)
- Intro to Cyber Security Job Simulation (Forage)
- Prompt Engineering for Everyone (Cognitive Class)
- Responsive Web Design (FreeCodeCamp)

Languages

Native: Kannada

Fluent: English, Hindi, Telugu