

# Rohit Kumar

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## EDUCATION

### Amrita Vishwa Vidyapeetham

B-Tech in EEE, Minor in Data Science and Engineering – CGPA: 8.15

Bengaluru, Karnataka

October 2022 – May 2026

### Gurukul Vidyapeeth

Physics, Chemistry, Mathematics – SCORE: 83.6%

Hajipur, Bihar

April 2020 – March 2021

## EXPERIENCE

### Analyst Intern

GE HealthCare

June 2025 – August 2025

Bengaluru, Karnataka

- Automated equipment Up-time tracking Project and reduced analysis time from 10 minutes to just 1 seconds.
- Developed an ETL Pipeline to fetch data from EDHR Database for reporting and Dashboard representation.
- Assured 100% data accuracy across 400+ instruments utilized for testing.
- Performed data validation and achieved reduction of equipment downtime by 15% and cost saving of up to 22%.

## PROJECTS

### Nayan - Assistive Device | Python, YOLOv8, Raspberry Pi v5, Git, Embedded System

July 2025 – Present

- Developed a real-time assistive navigation device using YOLOv8 on Raspberry Pi v5, empowering visually impaired individuals to independently navigate.
- Delivered multi-modal user feedback as spatial audio cues via text-to-speech, haptic vibrations for obstacle alerts, and location-based guidance with Google Maps integration.
- Achieved a substantial 82% object recognition accuracy across 80 categories (COCO Dataset).

### DermaCare Pro Application | Python, Deep Learning, Flask, React, MySQL

February 2025 – April 2025

- Build a web application with react frontend and flask backend for real-time prediction of possible infections for 8 different skin disease classes
- Trained a CNN model fine-tuned on VGG 16 architecture, achieving 72% accuracy on labeled dermatology data.
- Integrated MySQL database to store and manage user profiles, product, and doctor information.
- Found Reduction in diagnosis time from 10 minutes(manual) to 10 seconds by testing over 500+ Skin samples.

### Climate Resilience Application | API, Python, ML, Flask, React, Git

November 2024 – December 2024

- Developed an ETL Pipeline to fetch, transform and Load real-time climate and disaster data across all 7 continents from open source API platforms.
- Tuned a Random Forest Classifier, achieving 86% accuracy through hyperparameter optimization, enhancing prediction reliability.
- Deployed a full-stack web app with Flask backend and React.js frontend on Render, using Git for version control.

## SKILLS

**Language:** Python, C, Java, JavaScript

**Database:** SQL(MySQL), No SQL(MongoDB)

**Frameworks and Libraries :** HTML, CSS, Flask, PyTorch, Kafka, PySpark

**Tools and Technologies:** Data Structures, Machine Learning, OS, DBMS, Statistics, System Design (HLD), REST

API(fast API), Git / GitHub, CI/CD, Docker, AWS, Power BI, Excel, Postman

**Soft Skills:** Presentation, Teamwork, Communication, Collaboration

## COURSES AND CERTIFICATIONS

Data Science Bootcamp – Udemy | MLops – CampusX | Data Analytics – Cisco | SQL – Geekster | Python- HackerRank

## POSITION OF RESPONSIBILITY

**Aavishkara** : Served as Senior Executive at ASEB Science Club

August 2023 – July 2024

**NSDC** : Worked as Senior Project Executive at NSDC Bengaluru Chapter

July 2025 – August 2025