ROHIT KUMAR

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EDUCATION

Amrita Vishwa Vidyapeetham, Bangalore, Karnataka
- *B-Tech in EEE - CGPA: 8.02 (As of 5th Sem)*

with Minor in Data Science Engineering   **2022 – 2026**

Gurukul Vidyapeeth, Vaishali, Bihar
- *Class XII - CBSE, Score: 83.6%*   **2020 – 2021**

Public Central School, Samastipur, Bihar
- *Class X - CBSE, Score: 86%*   **2018 – 2019**

PROJECTS

Nayan – Smart Assistive Device for Visually Impaired (YOLOv8 + Raspberry Pi)   **Ongoing**
- Developed a real-time object detection system with YOLOv8 on Raspberry Pi, detecting several objects and declaring their direction through offline Text-to-Speech.
- Streaming live webcam video using OpenCV, recognizing between 80 object categories via the COCO dataset and issuing spatial audio indicators (e.g., "bottle on the right").

Tech Stack: Raspberry Pi, YOLOv8, OpenCV, Python, TTS

DermaCare – Skin Disease Detection & User Health Tracking Web App link   **February 2024 – March 2024**
- Developed a Flask-based web app where users can upload skin pictures, describe symptoms, and receive customized skincare advice.
- Trained and implemented a bespoke CNN from the ground up and fine-tuned the pre-trained VGG16 on a labelled dermatology dataset for common skin condition classification.
- Tightly integrated secure authentication, user profile tracking, and last activity logging in MySQL database.

Tech Stack: Python, Flask, MySQL, PyTorch, Deep Learning

Climate Resilience & Disaster Prediction Web App link   **November 2024 – December 2024**
- Implemented a web app based on Flask with an interactive user interface to predict natural disasters based on real-time and past climate data.
- Utilized a Random Forest Classifier with a 76% prediction accuracy, using environmental APIs to update data continuously.
- Hosted the app on Render, providing real-time access and easy disaster risk visualization for early warning and preparedness*.*

Tech Stack: Python, Flask, MySQL, Postman ,API, Scikit-Learn, Pandas, Seaborn, Matplotlib, Machine Learning

SKILLS

- **Programming Languages:** Python, C++ (Basics)
- **Core Concepts:** Data Structures & Algorithms, DBMS, IoT
- **Data Science:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, PyTorch, EDA, Statistics
- **Web/Data Tools:** Beautiful Soup, SQL, MongoDB, MySQL, Power BI, Render
- **Version Control:** Git, GitHub
- **Database:** MySQL, MongoDB
- **Soft Skills:** Presentation, Team Work, Communication, Collaboration

COURSES/CERTIFICATIONS

- Complete Data Science Bootcamp - Udemy
- Data Analytics – Cisco
- Data Visualization - TCS
- SQL Basic to Advance – Geekster
- Hacker Rank Python Certification Test – Hacker Rank
- Python – Udemy

POSITION OF RESPONSIBILITY

- **IEEE Sensors** – Serving as Senior Executive of IEEE Sensor community
- **NSDC-ASEB** – Serving Currently as Hackathon team lead
- **Aavishkara (The Science Club)** – Served as Senior Executive (Aug 2023 – July 2024)

ADDITIONAL INFORMATION
- **Achievements : 6th** in AI-Arena Hackathon - **IEEE** CIS, **1st** in Handball Inter department
- **Interests:** Programming, software and Hardware integration, innovation, Automation