HIMANSHU AGGARWAL

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⌨ github.com/himanshu123 </> Leetcode

Education

Manav Rachna International Institute of Research and Studies (MRIIRS)   **Aug 2021 – May 2025**
B.Tech in Electronics and Communication Engineering   *Faridabad, Haryana*

Vidya Mandir public School   **April 2019 – March2020**
12th (CBSE), Percentage: 92%   *Faridabad, Haryana*

Experience

Backend Developer Intern | RUPYZ   **Feb 2025 – Present**

- **Redis-based caching:** Implemented a Redis-based caching layer over Cassandra to reduce AWS server load and operational costs by serving read requests from Redis.Contributed to system-wide deployment and assisted in load testing to ensure performance under high traffic.
- **Developed a Student Management System** using Django and Django REST Framework during my internship at Rupyz. Implemented core features including student enrollment, attendance tracking, course management, and secure teacher-restricted marks entry. Built RESTful APIs for CRUD operations and integrated authentication-based access control. Designed responsive templates for admin and teacher workflows.
  GitHub: github.com/himanshuagg123/Student_management_system
- **Auto DNS Mapper** : Developed an automated DNS mapping system using AWS services, including Lambda, Route 53, CloudWatch Events, and IAM. The solution dynamically updates DNS A records based on EC2 instance state changes—mapping running instances to their public IPs, stopped instances to 127.0.0.1, and deleting records for terminated instances. The project was deployed using the AWS SAM CLI, with secure IAM policies enabling controlled access to EC2 and Route 53 resources. This automation streamlined DNS management and reduced manual intervention.
  GitHub: https://github.com/himanshuagg123/Auto_dns_mapper
- **Slack Notification Bot** :Built an automated Slack bot using Python, Slack API, and Docker to send real-time system error alerts to public and private channels. Handled `channel_not_found` errors via proper OAuth scopes and permissions. Containerization ensured consistent deployment, improving incident response and reducing manual reporting.
  GitHub: https://github.com/himanshuagg123/slack1

Skill Set

Languages	Python (DSA, scripting), Java, SQL, HTML/CSS
Frameworks/Libraries	Django, Django REST Framework
Databases	PostgreSQL
DevOps/Cloud	Docker, AWS (EC2, Lambda, Route 53)
Tools & Testing	VS Code, Git/GitHub,Postman,Linux (Ubuntu), Windows
Soft Skills	Problem Solving, Teamwork, Flexibility, Computer Literacy

Projects

Face Recognition Based Attendance System | GitHub | *Python, OpenCV, Tkinter, Pandas*   **Oct 2024 - Jan 2025**

- Developed a desktop application that automates attendance using real-time face recognition via webcam.
- Enabled face registration and trained the model using the **LBPH** algorithm for accurate recognition.
- Integrated GUI using **Tkinter** with password-protected access and clear navigation for training, detection, and viewing attendance.
- Stored attendance logs in **CSV** format with timestamps; ensured smooth performance in offline environments.
- Utilized **Haar Cascade Classifier** for efficient face detection and real-time tracking.

MITTVAANEE - Voice of Soil | *Arduino UNO, Raspberry Pi, python*   **Jan 2023 - Feb 2023**

- Built a crop recommendation tool that suggests optimal crops to farmers based on soil nutrient data.
- Secured **1st place** in the Anveshan competition held on 22 February, 2023.
- Developed the system using **Raspberry Pi** and **Arduino UNO**, applying core concepts of **C** and **Python**.

Achievements

STARTUP – Pill Box Selected in the Manav Rachna Prototype Program   **2023**

- Our idea ”Pill Box” was selected by the Screening Committee for development under the **Newgen IEDC** plan.
- Received funding of **2.5 lakh** and incubation support for up to **180 days** as part of the prototype development program.