MUDITYA RAGHAV

Dhanwantri Nagar 482003, Jabalpur [M.P], India

📞 +91 877-042-8132 ✉ mudityadev@gmail.com 🔗 linkedin.com/in/mudityadev ⦿ github.com/mudityadev

Education

Gyan Ganga Institute of Technology and Sciences	**Aug. 2019 – May 2023**
B.Tech in Information Technology (CGPA : 9.2/10)	*Jabalpur, Madhya Pradesh*

Nachiketa Higher Secondary School	**Aug. 2018 – April 2019**
12th, MP Board (Percentage : 70/100)	*Jabalpur, Madhya Pradesh*

St Anne'S Hr Sec School	**Sep. 2011 – May 2018**
10th, CBSE Board (CGPA : 7.4/10)	*Indore-Bhopal Road, Madhya Pradesh*

Relevant Coursework

- Data Structures
- Web Development
- Database Management
- Operating System
- Cloud Computing
- Computer Vision

Internship

Cisco Network Academy (Virtual Internship)	**April 2021 - July 2021**

- Use **Burp Suite and Nmap Tools** to test vulnerability on E-commerce Website
- Participate in **bug bounty program** by Paypal (HackerOne).

Projects

Contactless Payment and Checkout System in the Shopping mall | Source Code

Semi-Finalist, Microsoft Imagine Cup Hackathon 2021   **February 2021**

- ∗ Built Scalable Web Applications which provide high performance and security by **10% using Django Rest Framework(Python3) and PostgreSQL (Database)**
- ∗ Enable the anti-theft feature from shoplifters and intruder which increase security upto **40%** using a **virtual cart management system (dictionary - key: value-based data structure)** with a camera and weight sensors on self
- ∗ Reduce checkout queue by 60% by implementing a **Contactless-payment feature** using **Face ID (Face Recognition Azure)** based authenication
- ∗ Implemented a **Role-based management system** easy-to-use **dashboard(bootstrap, HTML5, CSS3)** for all parties (admin, user, and store owner) which provides real-time updates and reduces manual work a load of **inventory management by 80%** by implementing a cloud-based User Interface build using **AZURE Web Static** service.

Cloud-based Predictive Input Texting & Typing System | Source Code

Final-Year Project, B.Tech 2019-2023   **October 2022**

- ∗ Predicting **next 5 words** and completing the sentence with an **accuracy of 83%** by using **Word-Rank Algorithm.**
- ∗ Implemented a **behavior analyzer** that identifies patterns from words and sentences of users to increase the prediction accuracy by 60% by adding new words and updating the **Word-Rank algorithm.**
- ∗ **Reduce time and user effort by 10x** to get the meaning of the word and store the information in **real-time by automating the process of storing** and processing in **AWS.**
- ∗ provide **scalability to handle 100,000 users/second** using **python3 microservice architecture** and **AWS beanstalk service.**

Machine Learning model to predict the safety of Cruise Ship | Source Code

Kaggle Competition, **Rank 2096/14635 & Score: 0.78468 (top 15%)**   **Nov 2022**

- ∗ Implemented a machine-learning model which **predicts the survival rate** of the cruise ship by **increases safety by 60%** using titanic passenger data like **(age, sex, socio-economic class)** and survival history.
- ∗ **Identify the cabins/area** which has less survival rate and by making them accessible to passengers on cruise ships increases **the survival rate 30%** by using supervised learning algorithm like **support vector machine**

ACHIEVEMENTS

Bachelor of Technology	**August 2019 – May 2023**

Development and Problem Solving

- ∗ November 2022 -   **Titanic - Predict Survival (Kaggle), Rank 2096/14635 Score: 0.78468 (top 15%)**
- ∗ June 2022   -   **Ranked 3502 out of 24000+ participants in Leetcode Weekly Contest 298**
- ∗ November 2022   -   **Solved 200+ problems on Leetcode and GFG.**
- ∗ June 2022   -   **2nd Position in Inter-College Smart India Hackathon 2022**
- ∗ April 2022   -   **Issued Patent No.202221006680 on detecting a person in low illuminated space**

Technical Skills

Languages: Python3, C/C++, HTML5/CSS3, JavaScript
Developer Tools: Amazon Web Services(AWS), Git, Docker,Jupiter Notebook,VS Code, PostgreSQL
Technologies/Frameworks: Linux, Django, OpenCV, Bootstrap5, Linux, Github, REST-API

Certificates / Extracurricular

- · 02/2021 - 03/2021   - **Python for Machine Learning by Great Learning**
- · 02/2020 - 04/2020   - **CPA: Programming Essentials in C++**
- · 03/2020 - 04/2020   - **PCAP: Programming Essentials in Python**
- · 03/2020 - 05/2020   - **Cybersecurity Essentials by Netacad**
- · 02/2021 - 01/2022   - **Core Member of Team Indigo**
- · 10/2020 - 02/2021   - **Team Leader Imagine Cup Hackathon 2021**
- · 03/2020 - 06/2020   - **Taught C/C++ to 1st Year Students**