

MUDITYA RAGHAV

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Education

B.Tech in Information Technology (CGPA: 9.2/10)

Gyan Ganga Institute of Technology and Sciences

Aug. 2019 – May 2023

Jabalpur, Madhya Pradesh

12th, MP Board (Percentage: 70/100)

Nachiketa Higher Secondary School

Aug. 2018 – April 2019

Jabalpur, Madhya Pradesh

10th, CBSE Board (CGPA : 7.4/10)

St Anne'S Hr Sec School

Sep. 2011 – May 2018

Indore-Bhopal Road, Madhya Pradesh

Relevant Coursework

- Data Structures
- Database Management
- Cloud Computing
- Web Development
- Operating System
- 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 authentication
- * 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**