

# Muditya Raghav

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## EDUCATION

- **B.Tech in Information Technology (CGPA: 9.2/10)** Jabalpur, India  
*Gyan Ganga Institute of Technology and Sciences* *August 2019 - May 2023*
- **12th, MP Board (Percentage: 70/100)** Jabalpur, India  
*Nachiketa Higher Secondary School* *July 2018 - April 2019*
- **10th, CBSE Board (CGPA: 7.4/10)** Bhopal, India  
*St Anne'S Hr Sec School* *July 2016 - June 2017*

## TECHNICAL SKILLS

- **Languages:** Python3, C++, HTML5/CSS3, SQL, Javascript
- **Frameworks:** Django, Flask, NodeJS, OpenCV, Bootstrap5, REST-API
- **Tools:** Amazon Web Services(AWS), GIT, Docker, Jupiter Notebook, Linux

## EXPERIENCE

- **Software Developer Intern** Remote  
*Persistent Systems* *April 2022 - June 2022*
  - **Excel testing tools:** automated analysis and data manipulation which reduces the time.
  - **Impact:** The testing using excel reduced by 90% from 3 hours to 30 minutes
  - **Tools Used:** Python3 as a scripting language with Pandas as data frame Manipulation.
- **Cyber Security Intern** Remote  
*Cisco Network Academy* *April 2021 - July 2021*
  - **Security Testing:** Use Burp Suite and Nmap Tools to test vulnerabilities on E-commerce Website
  - **Bug Bounty:** Participate in a 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**
  1. Built **Scalable Web Applications** which provide high performance using Django Rest Framework(Python3)
  2. Enable the anti-theft feature from shoplifters and intruder which increase security up to 40% using a **virtual cart management system (dictionary - key: value-based data structure)** with a camera and weight sensors on self
  3. Reduce **checkout queue by 60%** by implementing a Contactless-payment feature using Face ID (Face Recognition Azure) based authentication
  4. 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 the manual work a load of inventory management by 80% by implementing a cloud-based User Interface built using AZURE Web Static service.
- **Cloud-based Predictive Input Texting & Typing System — SOURCE CODE:**  
**Final-Year Project, B.Tech 2019-2023**
  1. Predicting the **next 5 words** and completing the sentence with an accuracy of 83% by using Word-Rank Algorithm.
  2. 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
  3. Provide scalability to **handle 100,000 users/second** using Python3 Microservice Architecture and AWS Beanstalk Service.

## COURSEWORK

- **Core Subject:** Data Structures, Object Oriented Programming , Database Management , Operating System, Networking
- **Practical :** Works on AWS cloud platform, Image Processing (Computer Vision), Microservice Architecture

## ACHIEVEMENTS

- **Ranked 2104 out of 24000+** participants in **Leetcode Weekly Contest 298 (Top 10%)**
- **2nd Position** in Inter-College Smart India Hackathon 2022
- **Titanic - Predict Survival (Kaggle), Rank 2096/14635 Score: 0.78468 (top 15%)**
- Issued **Patent No.202221006680** on detecting a person in low illuminated space on April 2022

## CERTIFICATION

- **Amazon Web Services Cloud Foundations (AWS Academy)** Virtual, India  
*Get hands-on experience on various cloud concepts AWS core services, architecture, and pricing* *December 2022*
- **C++ Certified Associate Programmer Certification (Cisco Network Academy)** Virtual, India  
*Implement and write in C++ and resolve typical implementation challenges via language libraries.* *July 2020*