

# MANTU SAHOO

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## EDUCATION

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### **Centre for Development of Advanced Computing (CDAC), Noida**

Masters in Computer Applications

2023 - 2025

First Year CGPA: 8.6/10

Affiliated to GGSIPU, Delhi

### **Government Autonomous College, Angul**

Bachelors of Science (Chemistry)

2019 - 2022

CGPA: 7.58/10

Affiliated to UTKAL University, Odisha (Bhubaneswar)

### **Binayak Higher Secondary School, Angul**

Higher Secondary

2017 - 2019

CGPA: 8 , CHSE

### **Kosala High School, Kosala**

Secondary School

2016 - 2017

CGPA: 7.9, BSE

## TECHNICAL STRENGTHS

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**Computer Languages:** Java ,Python, SQL, HTML, CSS, JavaScript.

**Software & Tools:** Eclipse, Microsoft Visual Studio, NetBeans, PyCharm

**Subjects of Interest:** DBMS, Computer Networks, Operating Systems, Data Structures

## TRAININGS

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### **Full-Stack Developer (Java Backend)**

Exposys, Remote Work

June 2024 - July 2024

Worked as a Full-Stack Developer intern, gaining experience in both front-end and back-end

development. Adapted quickly to new technologies, tools, and development practices, and completed a project successfully in a remote environment.

## PROJECTS

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### Hand Gesture Recognition System

**Scope:**

Developed a real-time Hand Gesture Recognition System to enhance human-computer interaction. The project involved recognizing American Sign Language (ASL) alphabets and creating custom hand gestures for tasks such as presentation control.

**Technologies Used:**

- Programming Languages: Python
- Libraries & Frameworks: OpenCV, TensorFlow, Media pipe, pyautogui, NumPy
- Algorithms: Random Forest Classifier

**Challenges & Solutions:**

- Viewpoint Variation: Implemented robust tracking and recognition techniques to handle changes in hand position and angle.
- Illumination Changes: Utilized advanced image processing to manage varying lighting conditions.
- Occlusion: Developed algorithms to detect and interpret partial hand visibility.

### Digital Pharmacy Solutions

**Scope:**

Developed a user-friendly online platform for managing pharmacy operations, including prescriptions, inventory, and order processing. The system is designed to streamline pharmacy workflows and improve accessibility for users through a desktop application.

**Technologies Used:**

- Frontend: Java Swing, AWT (Abstract Window Toolkit), JFrame
- Backend: Java
- Database Connectivity: JDBC
- IDE: NetBeans

**Challenges & Solutions:**

- User Interface Design: Utilized Java Swing and AWT to create a responsive and intuitive desktop interface, ensuring a seamless user experience.
- Data Security: Implemented secure data handling practices with encryption and secure authentication to protect sensitive information.
- Database Integration: Used JDBC for effective communication between the Java application and the database, ensuring reliable data management and query execution.

### SMART-BILLER

**Scope:**

Designed a facial recognition-based system to manage student profiles, including updating personal information and sending instant notifications regarding account status. The system aims to enhance administrative efficiency and improve communication with students.

**Technologies Used:**

- Frontend: HTML, CSS, JavaScript
- Backend: Python
- Database & Notifications: Firebase

**Challenges & Solutions:**

- Facial Recognition Integration: Implemented facial recognition technology to accurately identify students, utilizing Python libraries for image processing and recognition.
- Real-Time Notifications: Used Firebase to send instant notifications about account status, ensuring timely communication.
- User Interface Design: Developed a clean and intuitive web interface with HTML, CSS, and JavaScript for ease of use and accessibility.

**ACADEMIC AND PROFESSIONAL ENHANCEMENTS**

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- Qualified NIMCET (2022-2023) with score 327 and AIR 1085
- Java Certification from CODE SOFT
- Certified in C Programming from NPTEL
- Certified in Fundamentals of Computer Systems from NPTEL
- Certified in SQL from GeekSter
- Solved 150+ problems on LeetCode and 50+ on InterviewBeet

**ABOUT ME**

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Team player with strong communication and interpersonal skills. Adapts quickly to new environments and technologies. Seeking a challenging role in a reputable company to contribute to its success. Long-term goal: to secure a prominent position within the organization.

**EXTRA-CURRICULAR**

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**Achievements in Athletics:**

- Secured First Place in 200m, 400m, and 100m Races at the C-DAC Noida Athletics Meet, winning the Gold Medal in each event.

**Volunteer, 4th International Conference**

Centre for Development of Advanced Computing (CDAC), Noida