

# Amol Waghmare

Roll No.: 23510067

Bachelor of Technology

AISSMS Institute of Information Technology, Pune

+91-8600722719

✉ amol.waghmare@aiissmsioit.org

GitHub Profile

LinkedIn Profile

## EDUCATION

---

### • Bachelor of Technology in Information Technology

AISSMS Institute of Information Technology, Pune

2023-27

CGPA: 7.83

## PERSONAL PROJECTS

---

### • Inventory Management System(Portal)

A Portal which allow to manage the inventory.

- Used to Manage Inventory, Track Sales Predict Sales Using ML And Many More.
- Technology Used: React JS, Node JS, Express JS, TensorFlow.js, MySQL Database.

### • Watch Store - Ecommerce Website (Full Stack Development)

An Ecommerce Website which allows users to browse and purchase watches online.

- Used to view watch collections, place orders, and manage order history with user login support.
- Technology Used: HTML, CSS, JavaScript, Bootstrap, Node.js, Express.js, MySQL.

### • An ESP-32 Based Voice Assistant Integrating Gemini AI and Mobile Speech Recognition

A voice assistant system built using ESP-32 and Google Gemini AI for voice-based interactions.

- Voice Assistant using ESP-32 uses Gemini APIs to answer the queries.
- Technology Used: Python, ESP-32, MIT App Inventor, Mobile Speech Recognition.

### • Campus Companion

A app in which user can order food from college canteen,check college library books availability and academic calender.

- Facilitating users' logins to app to use order food before breaktime and users will get it in breaktime.
- Technology Used: Flutter, Firebase.

### • Food Ordering System (Java GUI Project)

A GUI-based system to order food from a restaurant with a user-friendly interface.

- Allows users to browse the menu, place orders, and view order summary in a structured GUI.
- Technology Used : Java, Swing (AWT), and Object-Oriented Programming.

## RESEARCH/PUBLICATION

---

### • AI-Driven and NLP-Powered Decision Support System for Sales Forecasting

Apr 2025

(ResearchGate)

- Small and medium-sized enterprises (SMEs) are plagued by inventory mismanagement, which results in stockouts, overstocking and loss of money.
- Intelligent Inventory Management System (IIMS), a web-based AI solution that combines machine learning for sales forecasting, natural language processing (NLP) and conversational AI.

### • An ESP32-Based Voice Assistant Integrating Gemini AI and Mobile Speech Recognition

Apr 2025

(IJARSC Journal)

- Development and implementation of a low-cost, fully customizable voice assistant that uses the ESP32 microcontroller, Google's Gemini AI for natural language processing, and a mobile app built using MIT App Inventor for speech recognition.

## TECHNICAL SKILLS AND INTERESTS

---

**Languages:** C, C++, Python, Java, HTML, CSS and JavaScript

**Web Dev Tools:** Nodejs, Express.js, Git, Github

**Frameworks:** ReactJs, Flutter

**Cloud/Databases:**MongoDb, Firebase, Relational Database(mysql)

**Relevent Coursework:** Data Structures & Algorithms, Object Oriented Programming, Database Management System, Software Engineering and Project Management.

**Areas of Interest:** Web Development, Cyber Security, Data Science and Machine Learning, Mobile App Development.

**Soft Skills:** Problem Solving, Self-learning, Presentation, Adaptability

## POSITIONS OF RESPONSIBILITY

---

### • Documentation Head MLSA Club - AISSMS IOIT, Pune

Aug 2024- Present

- Managed official documentation, including meeting minutes, event reports, and participant records and supported internal communication by organizing and documenting key discussions and decisions.

### • Executive TENET Event - IOIT ACM Chapter

Oct 2024

- Assisted in organizing and executing the TENET technical event with a team of student coordinators and collaborated with core team members to ensure smooth event flow and successful completion.