



# Ameya Ghadge

I am a highly motivated and ambitious individual with a passion for Data Structures, IOT and Cybersecurity. I possess excellent communication skills and thrive in challenging environments. As a team player, I am always ready to take on new challenges and contribute to the success of the team. With my strong technical background and dedication, I am confident in my ability to make a positive impact.

## Contact

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## Education

2024

**B.E Computer Engineering**

Pune Institute of Computer Technology

## Skills

- C++/Python
- Data Structures
- MYSQL
- HTML/CSS
- IOT

## Achievements

- First Prize in Impetus and Concepts'22 in ML domain
- First Prize in Paper Presentation in Pulzion 2023

## Projects

### CARBON MONOXIDE MONITORING SYSTEM FOR AUTOMATING AIR FILTERS (CARBON-X)

Tech stack: Arduino UNO, XBEE PRO S2C, MQ-7 Sensor, Node-red

The Carbon Monoxide Monitoring system automates air filters based on detected carbon monoxide (CO) levels. It uses an Arduino UNO, XBEE PRO S2C, and MQ-7 Sensor. The MQ-7 sensor detects CO gas levels and sends the data to the Arduino UNO for processing. The Arduino UNO wirelessly transmits the data to a central monitoring unit using the XBEE PRO S2C module. The system can trigger air filters or ventilation systems when high CO levels are detected, ensuring a safer environment.

### MOMER

Tech Stack: Python, Flask, HTML5, CSS, JavaScript

A web Application for automating the minutes of meetings. It converts the uploaded audio file to text and summarizes the text using pre-defined summarization models.

### Secure Data Analytics Module using Homomorphic Encryption

Tech Stack: Python, Pandas, RSA Algorithm, Paillier Algorithm

The project aims to provide a library using which data analytics can be performed on encrypted data. The library will include partial homomorphic encryption and somewhat homomorphic encryption algorithms like RSA and Paillier techniques.

### Leave Application Management System

Tech Stack: Django, MySQL, HTML5, CSS, JavaScript

A solution for making the process of filling the leave application digitally and for easy integration with the MIS System.

### STUDYZEN

Tech Stack: HTML5, CSS, JavaScript, Bootstrap

A website for first year students where they can find all the required material for first year. Whether it be books, Sample Papers or even video lectures to help them in their studies.

## Publication

- Carbon Monoxide Monitoring System for Automating Air Filters  
IEEE. Apr 19 2023

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