

# Samyukta Gade

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## EDUCATION

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### Mahindra University

Bachelor of Technology in Computer Science, Grade: 8.59

Hyderabad, Telangana

August 2022 – August 2026

### DAV Public School

MPC + Computer Science, Percentage Score: 93.6%

Rourkela, Odisha

March 2020 – March 2022

**Relevant Coursework:** DSA, DBMS, Theory of Computation, Machine Learning, Computer Vision, AI

## EXPERIENCE

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### Software Engineering Fellow | Headstarter AI

July 2024 – September 2024

- Developed five AI projects from scratch over five weeks, showcasing expertise in cutting-edge technologies and rapid development cycles.
- Designed and developed a centralized platform that consolidates startup companies, enabling advanced resume parsing and filtering to match student profiles with suitable roles.
- Integrated a real-time notification system to alert users of new opportunities, streamlining the job search process and enhancing engagement.
- Designed and developed an intuitive user interface for an AI-powered flashcards application that transforms PDFs into educational flashcards. Prioritized user-friendly design and seamless interactions for enhanced learning experiences.

### Cloud Computing Internship | Teachnook

Jun 2024 – July 2024

- Developed and deployed an AWS-based appointment booking bot that automates the scheduling process for users, reducing manual appointment management by 40%.
- Worked on optimizing cloud infrastructure for scalability and cost-efficiency, reducing system overhead by 20%.
- Integrated Amazon API Gateway to create RESTful APIs for smooth communication between the bot and users.

## PROJECTS

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### Real Time Emotion Recognition System | Pytorch, Pandas, OpenCV, Live Project

Oct 2024 – Dec 2024

- Developed a real-time emotion detection system using PyTorch and OpenCV for facial expression analysis.
- Achieved over 95% accuracy in detecting emotions like happiness, sadness, and anger from live video streams.
- Integrated Pandas to handle and process datasets for training the emotion detection model, ensuring efficient data manipulation and cleaning.

### AI Flashcards Website Application | UI/UX, JavaScript, Firebase, OpenAI

June 2024 – Sept 2024

- Built a web application that automatically generates flashcards from PDFs using OpenAI API for text summarization.
- Integrated Firebase for real-time storage of user data and authentication, ensuring seamless access across devices.

### Inventory Management Pantry Application | UI/UX, Node.js, Firebase

June 2024 – Sept 2024

- Developed a pantry management web app using Node.js for the backend and Firebase for real-time data synchronization.
- Implemented key features such as item addition, deletion, and retrieval with intuitive UI/UX design.
- Utilized cloud-based storage for scalability, making the application accessible across devices.

## AI Rate My Professor | *OpenAI, React.js*

June 2024 - Sept 2024

- Developed a platform to rate professors based on student feedback for sentiment analysis of reviews.
- Integrated the backend with OpenAI to analyze course feedback, providing ratings based on teaching quality and course difficulty.
- Added features for students to contribute ratings and comments, further enriching the feedback system.

## Predicting the C.S. of concrete using ML techniques | *MATLAB, Python*

Sept 2023 – February 2024

- Conducted research utilizing machine learning algorithms to predict the compressive strength of concrete, achieving an accuracy of 85%.
- Developed and tested models using Python and MATLAB, focusing on optimizing prediction performance and reducing error rates.
- Analyzed data from multiple sources to identify key factors influencing compressive strength, contributing to material optimization strategies in construction.

## TECHNICAL SKILLS

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**Languages:** *C, Java, Python, SQL, JavaScript*

**Frameworks:** *PyTorch, React, Node.js, FastAPI, Flask*

**Databases:** *Oracle 19b, Firebase*

**Developer Tools:** *Docker*

**Design Skills:** *UI/UX*

**Expertise:** *Machine Learning, Deep Learning, Image Processing, Data Analysis*

## CERTIFICATES

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**Internship in Cloud Computing:** *Completed a three-month internship from TEACHNOOK.*

**Geekster Python:** *Completed a python course from Geekster*

**Matlab Machine Learning:** *Skilled in MATLAB machine learning algorithms, training, deployment.*

**Matlab Image Processing Tools:** *Skilled in image enhancement, analysis, and manipulation.*

**Geekster Job Preparation Course:** *Completed Geekster Job Preparation Course.*

## KEY ACHIEVEMENTS

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### University Chess Club Head

- *Represented the university chess team.*
- *National level chess player.*

### 2nd Runner-up at ICRESH 2024

- *Awarded the Best Paper in the Machine Learning category for innovative research and work presented at the ICRESH 2024 Bombay conference at BARC.*