

Aditi Kotwal

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SUMMARY

B.Tech Computer Science student with strong problem-solving abilities and a solid foundation in data analytics and visualization using Python and SQL. Familiar with AWS cloud services and networking basics, eager to apply technology-driven solutions to optimize processes. Passionate about exploring data to generate actionable insights and support digital transformation initiatives.

EDUCATION

MIT Art Design and Technology

Bachelor of Technology in Computer Science

Pune, MH

Aug. 2022 – May 2026

Angel High School and Junior College

Associate's in Liberal Arts

Loni Kalbhor, MH

Aug. 2020 – May 2022

PROJECTS

ADT-Connect: Educational Web Platform for MIT ADT University

Next.js, TailwindCSS, Clerk, Appwrite, Stream SDK, React

October 2024 – Present

- **Live Project Link:** adt-connect.vercel.app
- Built a platform for online learning and resource sharing with Next.js and TailwindCSS.
- Implemented user authentication with Clerk, storage with Appwrite, and video/audio meetings using Stream SDK.

Sign Language Detection using Python

Python, OpenCV, TensorFlow, NumPy

Jan 2024 – May 2024

- Developed a real-time sign language detection system with 85% accuracy.
- Enhanced gesture recognition using OpenCV, improving prediction speed by 25%.

Vehicle Monitoring System with Raspberry Pi

Python, OpenCV, TensorFlow, YOLO-V8

June 2023 - Jan 2024

- Developed a vehicle monitoring system with number plate recognition using Raspberry Pi.
- Enhanced system performance by 50% by optimizing real-time data processing.

CERTIFICATIONS AND ONGOING COURSES

AWS Academy Cloud Foundations — Learned AWS compute, storage, networking, IAM, cloud security, billing, and deployment practices.

Meta Frontend Development Certificate — HTML, CSS, JavaScript, React, DOM, Responsive Design

Cisco Networking Basics — Networking Fundamentals, OSI Model, TCP/IP, Routing, Basic Network Security

Java Programming Certificate - IIT Bombay — Object-oriented programming, Java syntax, Data Structures and algorithms

Python Programming Certificate - IIT Bombay — Python Syntax, Data Structures, Algorithms

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS

Frameworks: React, Node.js, Next.js

Cloud & DevOps: AWS (EC2, S3, IAM, VPC, Lambda), Deployment, IAM, Cost Management, Git, GitHub, Vercel, Docker

Libraries: pandas, NumPy, matplotlib, seaborn, OpenCV, TensorFlow