

Preksha Chaudhary

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EDUCATION

- Vellore Institute of Technology** Chennai, India
Bachelor of Technology - Computer Science and Engineering; GPA: 8.78 *September 2022 - July 2026*
- Delhi Public School** Roorkee, India
12th Class; Percentage: 92 *April 2021 - March 2022*
- Delhi Public School** Roorkee, India
10th Class; Percentage: 94 *April 2019 - March 2020*

SKILLS SUMMARY

- Languages:** Python, HTML, CSS, JavaScript, SQL, Basic C/C++
- Frameworks:** Flask, ReactJs
- Platforms:** AWS
- Soft Skills:** Leadership, Event Management, Public Speaking, Time Management

PROJECTS

- Personal Portfolio Website:** A personal portfolio website built using HTML, CSS, and the React library to showcase my education, projects, skills and achievements. Designed with a clean, responsive layout to provide a smooth user experience and highlight my work effectively.
- RealTime Facial Analysis System using AWS:** Developed an application for automatic tagging and visualization by analyzing images and recognizing faces using AWS services. Tech: Flask, HTML, AWS Lambda, AWS Rekognition, S3 Bucket, AWS Dynamodb
- Anxiety Companion Chatbox:** Built a Flask-based web application that uses a fine-tuned RoBERTa model to analyze user input and predict sentiment (Positive, Neutral, or Negative). Integrated Hugging Face Transformers for NLP and deployed a real-time text processing pipeline with user-friendly UI. Tech: Python - Transformers, Flask, PyTorch, HTML
- Mood Music Recommender:** : This project uses an emotion recognition model trained on the FER-2013 dataset to detect seven distinct emotions. It captures a live video feed from the user's webcam and analyzes facial expressions in real time to predict the current emotional state. Based on the detected emotion, the system then fetches a curated playlist from Spotify using the Spotipy library and displays personalized song recommendations directly on the screen. Tech: Keras, TensorFlow, Spotipy, Flask

RESEARCH WORK

- Topic: Smart Home Pet Feeder:** Worked on a research paper on an IoT-enabled pet feeder designed using Arduino, load cells, ultrasonic sensors, and a Wi-Fi module supporting scheduled and remote feeding, and food level monitoring for diverse pet needs.

PROFESSIONAL CERTIFICATE

- AWS Cloud Practitioner (May, 2025):** Validated foundational knowledge of AWS Cloud concepts, services, security, pricing, and architecture. Demonstrated understanding of core AWS services including EC2, S3, RDS, IAM, and best practices for cloud deployment and operations.

COURSES

- Developing Frontend Apps with React (Coursera)** : Gained hands-on experience in building dynamic and responsive web applications using React
- Databases and SQL for Data Science with Python (Coursera)** : SQL querying, data extraction, and integration with Python.
- Introduction to Back-End Development (Coursera)** : Covered basics of server-side development, databases, APIs, and backend frameworks.
- Complete Python Developer (Udemy)**: Comprehensive course covering Python fundamentals, OOP and web development.
- AWS Solutions Architect (Udemy)** : Gained hands-on experience with AWS services including EC2, S3, VPC, Lambda, CloudFormation, and IAM and Learned best practices for designing scalable, secure, and cost-effective cloud architectures

VOLUNTEER EXPERIENCE

- General Secretary - Sangam club**
Led and organized various literary events and activities to promote student engagement and creativity.