

Shrestha Jaiswal

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Education

VIT Bhopal University

BTech

Major in Computer Science; Minors in Artificial Intelligence and Machine Learning
Cumulative GPA: 9.12/10

Bhopal, Madhya Pradesh

Expected May 2026

12th Standard

New Angels Sr. Sec School

CBSE Percentage: 94.6

Pratapgarh, Uttar Pradesh

Jul 2021

10th Standard

MPVM Ganga Gurukulam School

CBSE Percentage: 95.4

Prayagraj, Uttar Pradesh

Jul 2019

Projects

Symptom Analyzer

Dec 2024 – Jan 2025

- Developed a **disease diagnosis and recommendation system** using **Python**, **Machine Learning models**, and **Flask** through training multiple classifiers for accurate disease prediction based on comprehensive data preprocessing techniques.
- The system analyzes patient symptoms to predict diseases, recommend medications, and provide precautions, workout and dietary suggestions for **40+** diseases, enhancing healthcare accessibility.
- Technologies: Python, Flask, Scikit-learn, Pandas, Numpy, HTML, CSS, Bootstrap

Sign Language Detection System (SLDS)

Sep 2024 – Nov 2024

- Designed a real-time sign language recognition system using **machine learning** and **computer vision** to improve accessibility.
- Optimized processing time by **30%** through efficient pre-processing, hand landmark detection with **Mediapipe**, and model serialization with **Pickle**, achieving **98%** accuracy in recognizing gestures with feature extraction and classification techniques.
- Technologies: Python, OpenCV, Mediapipe, Pickle, Scikit-learn

Automatic Number Plate Recognition System (ANPR)

Jan 2024 – Mar 2024

- Implemented an ANPR system enabling real-time visualization on video frames using **Python**, **YOLOv8** for vehicle and license plate detection, and **EasyOCR** for text recognition for efficient monitoring and automation.
- Implemented bounding box interpolation to address missing frames and maintain detection accuracy of above **90%**.
- Technologies: Python, YOLOv8, EasyOCR, OpenCV, NumPy, and SciPy

BragTech | Graphic Design Intern

Apr 2023 – Jul 2023

- Produced 50+ posters, logos, certificates, and business cards, increasing user satisfaction by 12% with brand-aligned designs.

Co-Curricular Achievements

- Achieved **5-star** for **C++** and **SQL** on HackerRank.
- Solved over **400 questions** on Data structures and Algorithms on various coding platforms.
- Selected as one of **5000** Reliance Foundation UG Scholars from a pool of 40,000 applicants.

Extra-Curricular

Android Club | Design Team Member

Jun 2023 – Jan 2025

- Designed promotional materials to effectively communicate event themes to an audience exceeding 300 individuals.

Insights Club (Journalism) | Design Team Member

Jun 2023 – Jun 2024

- Collaborated effectively with 8 cross-functional teams to extract insights of 100+ events conducted in university.

ADDITIONAL

Technical Skills:

Machine Learning, HTML/CSS, JavaScript; Proficient in C++, Python, SQL; Operating Systems, Computer Networks, Database Management Systems, Object-Oriented Programming

Languages:

Fluent in Hindi, English

Certifications & Training:

HTML, CSS and JavaScript for Web Developers (Coursera) – Dec 2023.