Shwetank Thakur

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Education

VIT Bhopal University	Bhopal, Madhya Pradesh
Integrated MTech in Computer Science and Engineering	Expected May 2026

Major in Computer Science; Minors in Artificial Intelligence
Cumulative GPA: 8.79/10

12th Standard

Sunbeam School	Chandauli, Uttar Pradesh
CBSE Percentage: 81.6%	May 2020

10th Standard

Sunbeam School	Chandauli, Uttar Pradesh
CBSE Percentage: 88.6%	May 2018

Experience

Data Analyst Intern at Sitare Foundation   Apr 2024 – May 2024
- Developed a Python script using PIL to extract text from PDFs, classify certificate categories (Completion, Proficiency, Expertise) based on scores, and store structured data in a CSV file.
- Automated the creation of certificates using PIL, dynamically placing user inputs (name, email, points, and time) on a bordered 1600x1600 image with categorized certification levels.
- Created a PyPI package to analyze input text and classify it as fiction or nonfiction using linguistic and statistical techniques.
- Designed an image generator using PIL to create Sanskrit word representations, dynamically fitting translations and references onto a structured 1600x1203 background

Projects

Indian Sign Language Recognition using LSTM Model   Jun 2022 – Oct 2022
- Directed the development and integration of a deep learning-based gesture recognition system for 10 sign language gestures, advancing accessibility for individuals with hearing impairments.
- Applied OpenCV and MediaPipe Holistic to accurately capture essential sign language markers, assembling a dataset of 200,000 one-dimensional images from 8 subjects, each providing 2,500 images per gesture, ensuring robust model training and comprehensive data collection.
- Designed a custom LSTM neural network, achieving a training accuracy of 94.28% and an evaluation accuracy of 91.50%, surpassing baseline models such as VGG16 and ResNet.
- Crafted a sequential model with 14 layers and 4 dense layers, optimized with the 'Adam' optimizer and 'categorical_crossentropy' loss function, resulting in exceptional accuracy.
- Constructed a custom dataset for digit recognition, labeled 'zero' to 'nine' 0 to 9, and trained the model to accurately classify sign language signs with high precision.

Extracurricular

- Organized and conducted 5+ Intra and Inter University tournaments as the Sports Coordinator(Jun 2022 - Feb 2025) of VIT Bhopal Volleyball.
- Won 3+ Inter-University tournaments as the Captain of the University Volleyball team.
- Zone Level Participation:Represented Sunbeam School in Inter-zonal volleyball tournament.
- Represented Village Volleyball team in multiple State and District-level Open Tournaments.

ADDITIONAL

Technical Skills: Java, SQL, Python.
Framework & Libraries: OpenCV, Tensorflow,PIL, Numpy,Pandas
Languages: Fluent in Hindi, English; Conversational Proficiency in Bhojpuri
Certifications & Training: Online Course in Applied Machine Learning in Python (Coursera) – Jan 2023.
Hobbies: Playing Volleyball and Cricket, Cooking.