

HIMANSHU TIWARI

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🐙 github.com/himanshutiwari2005

Education

Vivekananda Institute of Professional Studies

2023 – Present

Bachelor of Technology in Artificial Intelligence and Data Science

Pitampura, New Delhi

Senior Secondary (Class XII), CBSE

2022

Sainik Public School, PCM

Bahadurgarh, Haryana

Secondary School (Class X), CBSE

2020

Sainik Public School

Bahadurgarh, Haryana

Relevant Coursework

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|--|---|--|
| • Fundamentals of Machine Learning | Analysis | • Computer Vision Applications |
| • Deep Learning and Neural Networks | • Introduction to Artificial Intelligence | • Natural Language Understanding |
| • Linear Algebra and Matrix Computations | • Programming for Data Analysis (Python) | • Computational Thinking and Problem Solving |
| • Probability, Statistics, and Data | • Algorithms and Data Structures | |

Projects

Text Summarizer | *Python, NLTK*

April 2023

- Built a basic text summarizer capable of both extractive and abstractive summarization using Python libraries.
- Implemented extractive techniques using sentence scoring and keyword frequency analysis.
- Explored abstractive summarization using pre-trained transformer models for natural language generation.

SignIt: Speech-to-Sign Language Converter | *Python, Flask, NLTK*

August 2023

- Developed a backend system that converts spoken English into grammatically correct Indian Sign Language (ISL) sentences.
- Designed a rule-based parser to transform standard English SVO (Subject-Verb-Object) structures to ISL SOV (Subject-Object-Verb) format.
- Enabled real-time sentence conversion through a lightweight Flask API for integration with mobile apps.

Music Recommendation System | *Python, Scikit-learn, Pandas*

January 2024

- Created a music recommendation system that suggests similar songs based on user preferences.
- Used CountVectorizer to compute feature vectors from song metadata such as genre, artist, and lyrics.
- Implemented cosine similarity to generate top-N recommendations for a given input song.

Technical Skills

Languages: Python, SQL

Libraries: NumPy, Pandas, Seaborn, Matplotlib, Scikit-learn

Tools & Platforms: Jupyter Notebook, VS Code, Google Colab, GitHub

Technologies/Frameworks: Flask, TensorFlow

Extracurricular

Smart India Hackathon 2024

March 2024

Team Member – Sign Language Recognition Project

National Level

- Built and trained a Convolutional Neural Network (CNN) model to recognize Indian Sign Language signs from image input.
- Improved model performance from 66% to 96% accuracy through hyperparameter tuning, data augmentation, and architectural refinement.
- Collaborated with a team to develop a scalable solution for enhancing accessibility for individuals with hearing impairments.