Arpit Goyal

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Education

VIT Bhopal University, Sehore, Madhya Pradesh | B. Tech.   **2022-2026**

Computer Science and Engineering, Specialization in Artificial Intelligence and Machine Learning

Cumulative GPA: **8.98**/10

Maheshwari Public School, Ajmer | 12th Standard   **2020-2021**

Percentage: **94.4%**

Maheshwari Public School, Ajmer | 10th Standard   **2018-2019**

Percentage: **92.8%**

Projects

AttentionSync: Student Focus Detection System

Developed a system to monitor student attention in real-time, enhancing classroom engagement through advanced computer vision.

- Built an ensemble of CNN models (ResNet50, InceptionV3, VGG16) with MediaPipe and OpenCV2 for facial and pose analysis to detect distraction patterns.
- Designed a custom dataset using photos of co-students, capturing diverse attention scenarios for model training.
- Enabled educators to optimize teaching strategies by providing insights into student engagement levels.

SentimentScope: Hybrid Sentiment Analysis System

Developed a hybrid sentiment analysis system to classify Kindle reviews as positive or negative, integrating Word2Vec with Logistic Regression and DistilBERT, deployed via a Flask web app for real-time predictions.

- Designed and trained a Logistic Regression model with Word2Vec embeddings on the Kindle Reviews dataset, optimized using GridSearchCV to achieve high accuracy in sentiment classification.
- Implemented advanced text preprocessing with NLTK, BeautifulSoup, and lemmatization, and integrated DistilBERT for enhanced sentiment predictions in a user-friendly Flask interface.
- Engineered a custom dataset pipeline, processing raw review data to create binary sentiment labels, enabling robust model training and evaluation.

Skills

Technical Skills: C++, Java, Python, SQL, Object-Oriented Programming, Data Structures and Algorithms, Machine Learning and Deep Learning

Additional

Certifications & Training: IBM Data Fundamentals (IBM)

 Languages Known: Hindi, English