Nitesh Kumar

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Education

Sant Longowal Institute of Engineering and Technology Expected Aug 2025
Bachelor of Engineering in Computer Science (CGPA: 8.72 / 10.00) *Longowal , Punjab*

- **Relevant Coursework:** Data Structures and Algorithms, Design and Analysis of Algorithms, DBMS, Operating System

Experience

Prodigy infotech Jan 2025 - Feb 2025
Data Science Intern *Remote*

- Engineered a a sentiment analysis project utilizing GloVe word embedding and LSTM for Twitter data; achieved an outstanding accuracy rate exceeding 90 %, enhancing predictive capabilities for sentiment analysis tasks

Projects

Movie Recommender System GitHub | *Content Based Filtering*, *Python*, *Sklearn*, *Pandas*, *Streamlit*

- Built a recommender system using Content based filtering algorithm to suggest personalized movie recommendations based on user preferences.
- Utilized datasets from the TMDB 5000 movie dataset, incorporating features such as movie genres, user ratings, and movie metadata.
- Designed and built an interactive web application using Streamlit framework to showcase the recommendations made by the recommender system.

Automatic Image Caption Generator GitHub | *VGG16*, *LSTM*, *Tensorflow*, *Python*, *numpy*

- Developed an automatic image caption generator using a combination of the VGG16 convolutional neural network for image feature extraction and LSTM recurrent neural network for text generation.
- Utilized the Flickr8k dataset, a widely-used benchmark dataset for image captioning tasks, containing 8,000 images each paired with five human-generated captions.
- Conducted data preprocessing tasks such as image resizing, normalization, and caption tokenization to prepare the dataset for model training.
- Achieved a remarkable bleu score of 0.54002, demonstrating high similarity to human-generated captions.

Customer Segmentation GitHub | *Kmeans*, *Python*, *Sklearn*, *Pandas*, *Seaborn*

- Designed and executed a customer segmentation model utilizing the KMeans clustering algorithm to categorize customers into distinct groups based on various attributes
- Utilized Python, scikit-learn, and pandas for data preprocessing, model development, and evaluation.
- Successfully identified distinct customer segments, enabling targeted marketing strategies and personalized customer experiences.

Technical Skills

Languages: Python, Java, JavaScript, SQL
Frameworks / Library: React, Pandas, Numpy, Matplotlib, Seaborn, Tensorflow, Sklearn
Developer Tools: git, Github
Machine Learning: Supervised Learning, Unsupervised Learning, Recommender System
Deep Learning: Neural Networks, Convolutional Neural Network, Reccurent Neural Network, LSTM, Attention, Transformer, NLP (Basic)
Concepts: Operating System, Data Structure and Algorithms, Object Oriented Programming, DBMS

Certifications

Machine learning Specialization certificate October 2023

Deep learning Specialization certificate February 2024