Ritesh Mishra

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Experience

Member, Next -Tech Lab 05/2022 – present
Chennai, India

- **Working on a chat bot** to generate **human like conversations** to help out in **therapy purposes.**
- Generates **responses based on the user's prompts and diverts the conversation** to a similar topic to keep the conversation alive.
- It uses **word embedding to generate similar words similar to keywords in the given prompt** and give results on the basis of the similar word found.
- Attended and conducting sessions like **ideation sessions, case - study sessions with help of professionals** in the industry and **alumni of our college**.

Intern, Kenbox Technologies 06/2022 – 07/2022
Noida, India

- **Worked on a Mood-o-Meter** which predicts the attrition rates, best productivity hours and tools **to improve workspace** environments.
- Devised the **basic workflow** of the Mood-o-Meter.
- **Created the User-Interface** of the application using HTML-CSS and JavaScript.
- Produced the **graphs for analysis of staff data** which would be required for the Mood-o-Meter using Django as backend.

Skills

- Python (Scikit-Learn, Tensorflow, Django, Tkinter, Seaborn, Matplotlib, Pandas, Flask)
- C++
- SQL
- HTML-CSS
- JavaScript
- PHP
- Microsoft Azure

Projects

Github Analyzer

- Engineered a **Python script with OAuth** for efficient retrieval and organization of code from GitHub repositories.
- Developed versatile functions to extract **code content from diverse file types**, including Jupyter Notebooks by using nbformat.
- **Integrated OpenAI's GPT-3.5 Turbo** for dynamic, user-friendly analysis and insightful suggestions on provided code snippets.
- Implemented a streamlined interface for users to **interactively explore and query GitHub repositories**, receiving instant responses through ChatGPT.

Paraphrasing Model using Word2Vec

- Developed a paraphrasing model using **Word2Vec's n-gram langauge model** trained 7.8 million sentences (dataset can be found here).
- The model made was evaluated using a standard word pair similarity dataset called wordsim353 . An **correlation accuracy of over 65 %** was found using this standard dataset.
- It makes use of Python modules such as "**re**" to preprocess data, **NLTK** to tokenize data, and **Gensim** to utilise Word2Vec.

Indian Sign Language Detection

- Trained a model on the ISL dataset **using LSTM neural networks** to detect Indian Sign Language gestures, emphasizing temporal dependencies.
- **Integrated MediaPipe and OpenCV** for precise hand landmark detection and real-time visualization during the modeling process.
- Developed an efficient application for **real-time gesture recognition**, enhancing accessibility with dynamic visualizations based on the trained model.

Certificates

- Beginning C++ Programming - From Beginner to Beyond - Udemy
- Big Data Analytics with Hadoop - SRMIST
- What is Data Science? - IBM Skills Network
- Tools for Data Science -IBM Skills Network

Education

B.Tech, SRM Institute of Science and Technology 2021 – 2025
Computer Science Engineering with specialisation in Big Data Analytics (CGPA : 8.69/10)

Class 12, Indus Valley Public School 2021
All India Senior School Certificate Examination - 88.4% Noida

Class 10, Aster Public School 2019
All India Secondary School Noida
Examination - 95.6%

Interests

- Drone technology enthusiast who developed a remote-controlled drone using an Arduino circuit
- Participated in various interschool quizzes, Model United Nations Conferences and debate competitions
- Learning to play violin due to my interest in western classical music