Moirangthem Gelson Singh

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in <u>Linkedin</u>







PROJECTS

BookBuddies

- Created a user-friendly **Flask** web application which allows preferences to input and receive recommendations
- Used the book-crossing dataset which consists of three tables, books, users and ratings
- Utilized cosine similarity for collaborative filtering based on book ratings to predict 4 most similar books to the input
- Implemented **Natural** Language Processing techniques, including text cleaning and tokenization, for effective user query processing
- Integrated **fuzzy matching** to handle variations in user input and identify the closest matching book titles
- Deployed the system on EC2 instance of AWS

NeuroAl

- Designed and developed a web application for brain tumor detection using FastAPI framework
- Implemented transfer learning by using the pre-trained VGG model in PyTorch to extract features from MRI images
- Used **RFE** for feature selection
- Performed hyperparameter tuning using grid search on SVM and used it for classification
- Displayed the prediction result on the website with clear and intuitive UI

Little Lemon API

- A Restaurant API project built using **Django Framework**
- Added functionalities such as searching, filtering, ordering, and pagination
- Optimized the API performance using caching techniques
- Implemented **user roles** with token-based authentication
- Throttling for controlling API access
- Integrated **Djoser** library for **improved authentication** endpoints
- Secured the API endpoints using JSON Web Tokens

RESEARCH/PUBLICATIONS

1. Moirangthem Gelson Singh et al., "Neuro-oncological **Investigation of MGMT and Overall Survival of GBM** Patients using Parallel Deep Learning Framework and MRI", IEEE Transactions on Artificial Intelligence (communicated)

TOOLS

- Python
- FastAPI
- TensorFlow
- AWS
- Flask
- SQL
- Selenium
- Git
- PyTorch
- GCP
- NLTK
- Numpy
- Django
- Pandas

SKILLS

- Data
- LLM
- Visualization Computer
- Algorithms
- Vision
- Regression
- Linear Algebra
- Transformers
- Reinforcement Time Series **Analysis**
- Learning

EDUCATION

M.Tech. (CSE) CGPA - 9.36/10 IIIT-Bh (2021-2023)

B.E. (CSE) SIT, Tumkur

(2016-2020)

CGPA - 8.68/10

CERTIFICATIONS

- 1.AWS S3 Basics
- 2. Test Automation using Selenium and TestNG
- 3. Google Cloud Big Data and Machine Learning Fundamentals