Moirangthem Gelson Singh

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Linkedin GitHub LeetCode Portfolio

TOOLS

- Python
- TensorFlow
- Flask
- Keras
- PyTorch
- COCO
- Django
- FastAPI
- AWS
- SQL
- Git
- YOLO
- Numpy
- Pandas

SKILLS

- Data Visualization
- Algorithms
- Regression
- Transformers
- Reinforcement Learning
- GANS
- Computer Vision
- Linear Algebra

EDUCATION

M.Tech. (CSE)
Grade - 9.36
IIIT-Bh
(2021-2023)

B.E. (CSE)
Grade - 8.68
SIT, Tumkur
(2016-2020)

12th
Percentage - 78.4 %
GNAV, Kurukshetra
(2016)

10th
Percentage - 85.50 %
GNAV, Kurukshetra
(2014)

HOBBIES

- Making 3D Digital Art
- Reading Novels
- Meditation

PROJECTS

BookBuddies

A book recommender system built with **Flask** and **machine learning**.

- Designed and built a Flask-based book **recommender**
- **system**.
- Utilized machine learning algorithms to provide
- **personalized** book recommendations.
- Used **NLP** to process **user queries.**
- Deployed the project on **AWS**.

NeuroAI

A **deep learning** based project for classifying and detecting brain tumors in MRI images

- Designed and developed a web application for brain tumor detection using **FastAPI** framework.
- Implemented transfer learning by using the **pre-trained VGG model** to extract features from MRI images.
- Used **PCA** for **feature selection**
- Displayed the prediction result on the website with **clear and intuitive graphs**.

Little Lemon API

A Restaurant API project built using **Django REST Framework**.

- Added functionalities such as **searching,filtering,ordering, and pagination**.
- Optimized the API performance using **caching** techniques.
- Implemented **user roles** with token-based authentication and **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, Tapan Kumar Sahoo, Biswajit Jena, Sanjay Saxena, "**Neuro-oncological Investigation of MGMT and Overall Survival of GBM Patients using Parallel Deep Learning Framework and MRI**", IEEE Transactions on Artificial Intelligence (communicated)

2. Moirangthem Gelson Singh, Sanjay Saxena, Suvendu Rup, Sarthak Padhi, "**Brain Cancer and World Health Organization**", Radiomics & Radiogenomics Studies of Brain Cancer, Elsevier (communicated)