TARAKA RAMA RAO MUDDADA

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EDUCATION

GMR INSTITUTE OF TECHNOLOGY   2020 - 2024
Bachelor of Technology in Computer Science and Engineering (CGPA of 7.88)

SRI CHAITANYA JUNIOR COLLEGE   2017 - 2019
Board of Intermediate in MPC (CGPA of 9.46)

INTERNSHIP EXPERIENCE

RESEARCH INTERN - ANDHRA UNIVERSITY   11/2023 - 02/2024
Data Science

- Developed an Open Information Extraction system for Text Summarization, incorporating Named Entity Recognition and Question Answering.
- Gained hands-on experience with AIML projects, contributing to development and deployment of advanced Machine Learning Algorithms.

PROJECTS

An Open Information Extraction for Text summarization and Question Answering system   11/2023 - 02/2024
Deep-Learning, Natural Language Processing, Web Scraping, Stream lit, VS Code |Demo

- Extracted information from diverse sources including text, PDFs, Word documents, and URLs. Preprocessed text for Summarization, Named Entity Recognition, and Question Answering.
- Created a text summarization model using T5 Transformer, trained end-to-end to generate modified text from input.
- Significantly enhanced ability to extract and summarize crucial information from extensive text documents.

Enhancing Image Understanding through Visual Question Answering   08/2023 - 11/2023
Deep Learning, Natural Language Processing, Transformers, Flask, Gradio, VS Code

- Developed a state-of-the-art Visual Question Answering (VQA) system interpreting and responding to questions based on image content.
- Integrated textual and visual data using Deep Learning models: BERT and LSTM for text, ResNet-50 for visual feature extraction.
- Streamlined integration of textual and visual features using multi-modal compact bi-linear pooling architecture with attention mechanisms, improving accuracy and efficiency by 90 percent.

Brain Tumor Detection using Hybrid Deep Learning Model   02/2023 - 05/2023
Machine Learning, Deep-Learning, TensorFlow, Keras, Flask, VS Code |Demo

- Utilized Kaggle dataset of 8000+ MRI images across four classes: Meningioma, Glioma, Pituitary, and No Tumor.
- Built and Optimized a robust Hybrid Deep Learning model using DenseNet-121 with TensorFlow and Keras to classify Brain Tumor types based on MRI images.
- Achieved 95 percent accuracy, outperforming ResNet-50, VGG-16, and CNN by leveraging features extracted from DenseNet-121's last layer and feeding them into a Random Forest model.

ACHIEVEMENTS

- Solved **350+** problems on LeetCode, **300+** problems on Code Chef, and **150+** problems on GeeksforGeeks.
- Won **1st** place in **Codeathon** Coordinated by ISTE at College level.
- Secured **2nd** prize in **Datathon 2023**, Conducted at the Inter-Collegiate level.
- Achieved **1st** place in the **Codeathon** Supervised by ISTE, GMRIT STEP CONE 2023 Edition.
- Secured **2nd** position in **Deep-Datathon** Organized by ACM. Runner of **Data-Wrangling** Contest administrated by GMRIT.

CERTIFICATIONS

Data Analysis Using Python | Python Programming Essentials | Introduction to Python Programming | Exploratory Data Analysis for Machine Learning | Certified By Hacker Rank in SQL, Python

SKILLS

Technical Skills : C++, Python, Java, HTML, CSS, MySQL.
Libraries : Pandas, Numpy, Matplotlib, TensorFlow, keras.
Cs-Core : Data Structures and Algorithms, OOPS, Database Management systems, SQL.
Tools and Technologies : Deep Learning, Machine Learning, Natural Language Processing, Flask, Git, Vs Code.