NAVAMI VIPITH KUMAR

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OBJECTIVE

A diligent and detail-oriented fifth year student of Data Science at Amrita Vishwa Vidyapeetham with strong leadership and technical skills. I strive to leverage AI, machine learning, and predictive analysis to assist companies in making informed business decisions. Actively seeking internships that enable me to contribute to organizational success and further develop my expertise in this dynamic field.

EDUCATION

Integrated Masters of Data Science, Amrita Vishwa Vidyapeetham, Coimbatore 2020 - 2025
CGPA : 9.24/10.0 (At the end of semester 8)

All India Senior School Certificate Examination (Class 12), CBSE 2017 - 2019
GEMS Our Own English High School, Dubai, United Arab Emirates
Marks: 469/500 (93.8%)

All India Senior School Certificate Examination (Class 10), CBSE 2015 - 2017
GEMS Our Own English High School, Dubai, United Arab Emirates
CGPA : 10.0/10.0

SKILLS

Technical Skills	Python, SQL, TensorFlow, HuggingFace LLMs, scikit-learn, MongoDB, Tableau, Git
Soft Skills	Communication, Attention to Detail, Analytical Thinking, Collaboration, Adaptability

PROJECTS

Medical RAG Application

Technologies Used: BioMistral-7B, Qdrant, PubMedBERT embeddings, llama.cpp, LangChain
Developed a medical RAG app capable of processing and converting medical PDFs into vector representations. It enables users to query the system and receive mostly accurate, context-aware answers. Made use of BioMistral-7B as the large language model, Qdrant as the vector database and PubMedBERT for embeddings, along with llama.cpp and LangChain for efficient implementation and query processing.

Comprehensive Analysis of Historical Indian Corporate Data

Technologies Used: SciPy, statsmodels, Pandas, Matplotlib, Plotly, scikit-learn, Jupyter Notebooks
Performed extensive analysis on a comprehensive dataset encompassing all Indian companies recorded from 1857 to 2020, spanning over 2 million rows. Utilized EDA techniques along with statistical methods and machine learning algorithms to derive insights and predictive models.

Plagiarism Detection System

Technologies Used: Transformers (HuggingFace), Gensim, Streamlit, scikit-learn, pandas, NLTK
Developed a plagiarism detection system using BERT and Doc2Vec, trained on research paper abstracts from 100,000 arXiv publications. The user will be able to input text and see the most similar paper from which it was most likely plagiarized. They can compare similarity scores from both models, enhancing the analysis of text similarity for academic content.

EXTRA-CURRICULAR ACTIVITIES

Core Team Member, Google Developer Student Clubs August 2022 - August 2023
Actively contributed to planning, organizing, and executing Google-sponsored Computer Science events, handling logistics, speaker arrangements, participant engagement, and social media content.

Head of Communications, Anokha 2023 March 2023 - April 2023
Successfully led the Communications team for Anokha '23, Amrita University's national level techfest. Created compelling content for the website, social media platforms, and promotional materials. Hosted various events during the techfest and wrote engaging scripts for the same.

Editorial Team Head, Student Energy Amrita November 2021 - November 2023
Contributed and led the Editorial team of Student Energy Amrita, producing high-quality content, while also assisting in event organization.

RELEVANT COURSEWORK

Database Management Systems, Data Visualization, Database Design, Big Data Analytics, Regression Analysis, Probability and Statistical Inference Theory, Linear Algebra, Natural Language Processing

CERTIFICATIONS

- Natural Language Processing with Sequence Models - Coursera
- Achieved 5-star (gold) rating in Python on HackerRank
- Introduction to Tableau - 365DataScience
- Introduction to Machine Learning - Kaggle