Maunik Vaghani

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Education

Nirma University **Sep 2021 - Present**
Bachelor of Technology - Computer Science and Engineering; PPI: 7.79 *Ahmedabad, Gujarat*

Ashadeep Vidhyalay **June 2019 - April 2021**
GHSEB; Pct: 92.92 and JEE Mains; PR: 96.67 *Surat, Gujarat*

Relevant Coursework

- Data Structure and Algorithm
- Design and Analysis of Algorithm
- Database Management System
- Operating System
- Object Oriented Programming
- Web development
- Cloud Computing
- Machine Learning
- Deep Learning
- Natural Language Processing

Experience

FlyOnTech Solutions **May 2024 - July 2024 (6 weeks)**
Machine Learning Intern *Surat, Gujarat*

- Enhanced model accuracy and efficiency by applying TensorFlow to develop and optimize DNNs, CNNs, and advanced RNNs like LSTM and GRU, using Python for effective optimization strategies.
- Improved text analysis accuracy and processing efficiency by applying techniques like word embeddings and tokenization to NLP tasks, ensuring accurate data transformations.
- Improved accuracy and streamlined deployment of ML models with Python and TensorFlow

Projects

Bitcoin Price Prediction Using Time Series Analysis | *TensorFlow, Python, Keras, Pandas* | View Project
- This project utilizes TensorFlow to develop diverse DL models, ranging from DNNs and CNNs, LSTM networks, different multivariate approaches, ensemble models, and the N-BEATS architecture(with 30 stacks, 4 layers in each block, and 512 neurons in each layer), for the time series forecasting of Bitcoin price.
- I developed an ensemble model that demonstrated superior performance compared to other models. The model achieved an MAE of $264.96 and an RMSE of $408.73.

Abstract Insights - NLP Project | *TensorFlow, Python, Keras, Pandas* | View Project
- In this project, a model was developed to classify sentences in medical abstracts using the PubMed 200k RCT dataset, efficiently categorizing sentences into roles such as objectives, methods, and results, thus facilitating faster literature review for researchers.
- I developed a DL model combining pre-trained token, character, and positional embeddings through feature engineering, achieving 83.20% accuracy and an F1 score of 0.8311.

Campground Website | *Node.JS, Express.JS, MongoDB* | View Project
- This project employs HTML, Bootstrap as a CSS, JS, middlewares, EJS, Cloudinary, and Mapbox.
- It features a full-stack online platform, enabling users to add and rate campgrounds, with account authentication and essential components like environment variables management, server setup, and content security policy implementation.

Technical and Problem Solving Skills

Languages: C, C++, Java, Python, JS, SQL, MongoDB
Frameworks & Libraries: TensorFlow, Keras, Pandas, Bootstrap, Express.JS, React.JS
Tools & Technologies: MySQL, Git, Github, AWS, Streamlit
Problem Solving: LeetCode: Achieved 50 Days & 100 Days Badge in 2024, HackerRank: 5-star badge in C++ & python, CodeForces: Pupil (Rating 1243), Solved 800+ DSA questions on various platforms.

Certifications and Involvements

- Machine Learning Specialization by DeepLearning.AI - Coursera
- AWS Academy Graduate - AWS Academy Cloud Foundations
- Certificate of Scholar - School of Technology, Nirma University
- Project Work - Banking System: Java Console Application
- House Prices - Advanced Regression Techniques, participation on Kaggle, 2023