Diptadeep Sinha

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Education

VIT Bhopal University , Bhopal , Madhya Pradesh May 2026
BTech in Computer Science and Engineering *CGPA: 8.80/10*

Modern Higher Secondary School,Agartala,Tripura, 12th Standard March 2022
Central Board of Secondary Education *Percentage: 86.62/100*

Ramakrishna Mission Vidyapith, Deoghar, Jharkhand, 10th Standard March 2020
Central Board of Secondary Education *Percentage: 95.60/100*

Technical Skills

Programming Languages: Python, C++,Java,HTML

Tools and Technologies: TensorFlow, PyTorch, Transformers

Field of Interest: Artificial Intelligence, ,Machine Learning and their applications in Natural Language Processing,healthcare,finance.

Languages: Fluent in English, Hindi, Manipuri, Conversational Proficieny in Bengali

Projects

VibeValue Aug 2023-Nov 2023
Language Model for Sentiment Analysis for Finacial Statements *Python,Transformers,Pytorch, TensorFlow,*

- Engineered a specialized sentiment analysis model for financial texts using BERT, achieving a 98% accuracy rate in sentiment classification.
- The BERT model was trained on financial domain-specific datasets viz. Financial PhraseBank, FiQA, and a financial news sentiment each consisting of more than 5000 unique annotated statements to enhance sentiment analysis accuracy
- Model Details: Customize BERT model by integrating financial domain-specific token embeddings, optimizing attention mechanisms, and fine-tuning output layers for sentiment classification.
- Achieved 98% accuracy, 97% precision, and F1 scores of 97% , outperforming LSTM, ELMo, ULMFit, and other traditional models in financial sentiment analysis on a 15,000 annotated finacial statment consisting dataset.
- VibeValue demonstrates the efficacy of leveraging BERT for financial sentiment analysis, significantly enhancing accuracy and providing nuanced insights crucial for decision-making in financial markets. The model's superior performance underscores its potential to contribute robustly to sentiment analysis applications across diverse financial domains.

AlzAware Feb 2024- Apr 2024
Image Classification Of MRI Image of Brain to detect Alzheimers *Python,Tensorflow*

- •Developed AlzAware, a deep learning-based framework for early detection of Alzheimer's disease, leveraging convolutional neural networks and transfer learning on neuroimaging data consisting of more than 12,000 classified images.
- The developed algorithm overcomes the limitations of existing diagnostic approaches by providing clinicians with a reliable, non-invasive, and scalable tool for detecting Alzheimer Disease pathology at its earliest stages with improved early detetion rates by 25%)
- Other methods used in this project include Transfer Learning with Pre-trained Models, Data Augmentation for Robustness and Optimization with Adaptive Learning Rates
- AlzAware achieved a accuracy of 99.414% with a validation loss of 0.1465

Certifications

- NPTEL Online Certification in Cloud Computing
- NPTEL Online Certification in Marketing Analytics
- Python Essentials in Vityarthi
- Bits and Bytes of Computer Networking offered by Google from Coursera