Parth Raj

+91-8306579310

rajparth8776@gmail.com

Education

- **VIT Bhopal University, Bhopal** *Expected May 2026*
  B.Tech in Computer Science Engineering CGPA: 8.19/10
- **Arya Vidyapith, 12th Standard** *Mar 2021*
  Central Board of Secondary Education,Bihar Percentage: 83%
- **Vidya Niketan Birla Public School, 10th Standard** *Mar 2019*
  Central Board of Secondary Education, Rajasthan Percentage: 91.8%

Projects

- **VibeValue** *Aug 2023 - Nov 2023*
  Language Model for Enhanced Financial Sentiment Insights
  - Developed a specialized sentiment analysis model tailored for financial texts using BERT.
  - Fine-tune BERT with financial domain-specific datasets (Financial PhraseBank, FiQA) to enhance sentiment analysis accuracy.
  - Model Details: Customize BERT by integrating financial domain-specific token embeddings, optimizing attention mechanisms, and fine-tuning output layers for sentiment classification.
  - Achieved 99.6% accuracy, high precision, and F1 scores, outperforming LSTM, ELMo, ULMFit, and other traditional models in financial sentiment analysis.
  - 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*
  Advancements in Alzheimer's Detection
  - Developed AlzAware, a deep learning-based framework for early detection of Alzheimer's disease, leveraging convolutional neural networks and transfer learning on neuroimaging data.
  - AlzAware overcome 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)
  - Utilized a range of advanced machine learning techniques, including CNNs and RNNs for developing AlzAware, an innovative framework for early detection of Alzheimer's disease.
  - 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

Technical Skills and Interests

Technical Skills: C++, Java, Python, HTML
Field of Interest: Artificial Intelligence, Machine Learning, and their applications in fields like healthcare, computer vision, and natural language processing
Languages:Fluent in Hindi and English

Certification and Training

- **NPTEL Online certification in Cloud Computing** *Apr 2024*
- **Python Essentials on vityarthi** *Apr 2023*
- **Bits and Bytes of Computer Networking offered by Google from Coursera** *Feb 2024*