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EDUCATION

G H Raison College of Engineering (GHRCE)

Nagpur, India

B.Tech in Artificial Intelligence

Expected, June 2023

- **CGPA:** 9.17 / 10.0
- **Relevant Coursework:** Machine Learning and Algorithms, Deep Learning, Natural Language Processing, Probability and Statistics using R, Artificial Intelligence in Finance, Software Engineering and Project Management

WORK & LEADERSHIP EXPERIENCE

Independent Researcher

Robust Time Series Forecasting via Time Differencing and Stacking (Draft)

- Evaluated linear and non-linear Machine Learning algorithms for Time Series Forecasting trained on 2500 data points
- Transformed data to stationary by Time Differencing features to remove Trend and Seasonality
- Concluded key factor was transformation of features, adding technical indicators and 1-, 2- and 3-day lags, which made project viable
- Recommended a robust and efficient pipeline for prediction, decreasing error by 10%

IEEE CIS Student Branch Chapter - GHRCE

Nagpur, India

Executive Committee Member

January 2021 – July 2022

- Plan and execute Hackathon, 4 Expert Talks and 2-month lecture series
- Event Lead of Hack4Good, led a team of 10 volunteers in organizing and handling the competition with 900 participants
- Develop event web-pages, manage listserv, design posters and create certificates of more than 1 thousand participants

PERSONAL PROJECTS

HateRaid

- Teamed with 2 people to create a web application that helps to identify hate content
- The model analyzes 2 modalities, text and image, using Multimodal reasoning with Joint visual and language understanding to identify if the content is hateful or not
- Experimented with late and early-fusion based Deep Learning architectures trained on 10 thousand multimodal examples

Tradl

- Developed a website using Flask leveraging 4 Machine Learning Models to predict price of Stocks, Commodities and Cryptocurrency
- The website fetches 10 years data from yahoo finance and forecasts the price

HONORS AND AWARDS

Smart India Hackathon, 2022

- Winner, Developed a web application for real-time translation of 28 Indian regional languages and 176 international languages
- Leveraged transfer learning by fine-tuning state of the art transformer architecture to increase accuracy by 10% compared to google translator's accuracy of 85%

Accenture Applied Intelligence Hackathon, 2021

- Winner, Real-time online platform with the help of AI to cultivate data from various sources and provide relevant information that can be sliced and diced as per the user's requirements to help society fight against COVID-19

Artificial Intelligence for Healthcare Hackathon, 2021

- Second Runner Up, Created an AI powered website where the user can upload an X-ray/CT scan image to get predictions from 21 diseases using a Deep Learning based model
- Prioritizes AI explainability, Class Activation Map method clarifies the prediction with the help of a heatmap superimposed on the image

Gold Medalist and Outstanding Award 2020 - 2021

- Awarded Gold Medal in academic year 2020-2021 for Outstanding Performance in academics

SKILLS AND ACTIVITIES

Languages: Professional working proficiency in English; Fluent in Hindi

Technical Skills: Python, R, C, C++, Pytorch, scikit-learn, Pandas, Numpy, Plotly, Matplotlib and Flask

Certifications & Training: Introduction to Machine Learning with Pytorch (Udacity), Deep Learning Nanodegree (Udacity), Neural Networks and Deep Learning and Improving Deep Neural Networks (Coursera)

Activities: ExeCom Member at IEEE CIS SBC GHRCE, Volunteer of E-Cell GHRCE