LATHA CHARUGUNTLA

DATA SCIENTIST

CONTACT

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Andhra Pradesh

https://github.com/Lathacharujenny

https://lathacharuguntla.github.io/portfolio-data-science

EDUCATION

2017-2022

SK UNIVERSITY

- BSC Computer Science

SKILLS

- Python
- SQL
- Machine Learning
- NLP
- Deep Learning
- Tableau
- Power BI
- Excel
- Git

CERTIFICATES

- IBM Data Science
- IBM Data Analyst

PROFESSIONAL SUMMARY

Results-driven Data Scientist with a Bachelor's in Computer Science and expertise in predictive modeling, statistical analysis, and data pipeline optimization. Skilled in applying machine learning, deep learning, and data visualization techniques to solve complex problems and drive actionable insights. Experienced in building and deploying scalable, end-to-end solutions for real-world challenges. Eager to leverage technical expertise, analytical mindset, and innovative problem-solving skills in a data science role.

PROJECTS

1. **Weather Image Classification**
   - Developed a robust deep learning model using state-of-the-art architectures like EfficientNetB7 and ResNet152V2 to classify images into 11 weather categories, including rain, snow, and lightning.
   - Designed a modular pipeline to streamline data preprocessing, augmentation, training, and evaluation, enhancing efficiency and scalability
   - Deployed an interactive Streamlit interface on Render, enabling real-time predictions and configurable experimentation parameters for users
2. **Resume Screening and Job Recommendation**
   - Engineered a scalable NLP-based application to analyze resumes, extract skills and qualifications, and recommend suitable job roles
   - Automated the parsing of resumes using advanced NLP techniques, enabling the efficient extraction of education, skills, and contact details.
   - Deployed a Flask-based web app to deliver a seamless and user-friendly interface for resume screening and job recommendations
3. **Mood Analysis**
   - Implemented a Bidirectional GRU architecture to classify user inputs into six emotional categories, leveraging advanced NLP and deep learning techniques.
   - Streamlined data preprocessing and tokenization workflows, improving model accuracy and processing efficiency.
   - Architected a modular, reusable codebase with robust logging and error handling to enhance scalability, maintainability, and debugging.
4. **Tesla Stock Prediction**
   - Developed an LSTM model to predict Tesla's stock prices, utilizing historical stock data to forecast future values of the stock's closing price.
   - Implemented a sequence-based approach using TensorFlow, optimizing the model with metrics like Mean Squared Error (MSE) to evaluate its accuracy.
   - Visualized prediction results through graphs comparing predicted vs. actual stock prices, demonstrating the model's potential for time-series forecasting and stock price prediction.