

HEMANTHSAIKUMAR CHALLAPALLI

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Profile

As a data science graduate with a Master's in Data Science and a robust foundation in computer science, I am proficient in utilizing analytical tools, programming languages, and frameworks to extract valuable insights from data. I have hands-on experience in developing and implementing machine learning models within my projects. Additionally, I am skilled in data cleaning, wrangling, and adept at leveraging deep learning techniques for complex problem-solving.

Skills

Programming Languages : Python, C, C++, R, JavaScript, PHP, Bash

Database : SQL, NoSQL, PostgreSQL, Microsoft SQL Server, Apache Spark

Deep Learning : Scikit-learn, TensorFlow, PyTorch

NLP : NLTK, spaCy, Gensim, Transformers

Analytical Tools : Tableau, Power BI, D3.js, Advanced Excel, RStudio, Jupyter Notebook, Databricks

Data Cleaning & Wrangling : OpenRefine, Extract Transform Load (ETL)

Web Development : HTML, CSS, MERN Stack (MongoDB, Express.js, NodeJS, React, next.js)

Projects

VAST Challenge MC2 2018 | Visual Analytics | Tableau | D3.js

- Led a team addressing critical challenges in Boonsong Lekagul waterways, characterizing chemical contamination trends.
- Analyzed anomalies in waterway samples, proposing sampling approach changes, using Tableau and D3.js for interactive data visualization.

Food Vision | Python | TensorFlow | Computer Vision | Deep Learning

- Implemented advanced food vision project using TensorFlow's Food101 dataset, training a custom model for efficient food image classification.
- Leveraged pretrained EfficientNetB0 model to surpass benchmarks from DeepFood paper, achieving an impressive 80.1% accuracy in recognizing diverse food items.

Skimlit NLP Project | NLP | LSTM | spaCy | Positional Embedding | Word Embedding

- Developed "many-to-one" sequence model for SkimLit NLP, achieving 84.2% accuracy with hybrid model combining positional, character, and token embeddings.
- Used spaCy for sentence segmentation, showcasing expertise in NLP, nuanced understanding of embedding techniques, and effective text classification.

Bitcoin Price Prediction | ensemble | Multivariate data | LSTM

- Conducted Bitcoin price prediction project using Coindesk data, exploring various models and incorporating ensemble techniques for accuracy.
- Developed robust training mechanism for forecasting Bitcoin prices, demonstrating expertise in handling time-series data and updating models, despite challenges in predicting specific events in cryptocurrency markets.

Experience

CHROME EXTENSION DEVELOPER | NOVI-JS ENTERPRISE | DEC 2021 –FEB 2022

- Created innovative Chrome Extensions using PHP, SQL, JavaScript, and diverse programming skills to enhance browser functionalities for Novi-JS Enterprise.
- Conducted rigorous testing, identified and promptly resolved issues, and designed/implemented software applications aligned with analyzed requirements, meeting project deadlines and exceeding client expectations.

FULL STACK DEVELOPER | SOFT STACK | FEB2021 –NOV 2021

- Spearheaded the development of a successful e-commerce website using React, ensuring seamless integration of frontend and backend components.
- Analyzed site analytics, defined key success metrics, and contributed to improved project planning and well-organized React requirements based on customer needs.

Education

MASTERS IN DATA SCIENCE | DEC 2023 | ROWAN UNIVERSITY, GLASSBORO, NJ

GPA : 3.6/4.0

BACHELORS IN COMPUTER SCIENCE | JUNE 2021 | JNTUH,INDIA

Certifications

Coursera :

Deep Learning Specialization by DeepLearning.AI

- Neural Networks and Deep Learning
- Sequence Models
- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Improving Deep Neural Networks : Hyperparameter Tuning, Regularization and Optimization

Udemy :

- The Excel Bootcamp : Zero to Mastery Course
- Complete Machine Learning & Data Science Bootcamp 2022 course
- Complete SQL and Databases Bootcamp: Zero to Mastery 2022 Course
- The Complete Web Developer in 2022: Zero to Mastery Course