

HEMANTH CHALLAPALLI

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Profile

- Master's in Data Science with a robust foundation in computer science, proficient in analytical tools, programming languages, and frameworks for extracting valuable insights from data.
- Hands-on experience in developing and implementing machine learning models, skilled in data cleaning, wrangling, and adept at leveraging deep learning techniques for complex problem-solving.
- Seeking challenging tasks and continuous learning opportunities.
- Eager to carve a mark in the data science arena, aspiring not just for recognition, but to lead in driving innovation and setting new standards for excellence in a competitive landscape.

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 | [website](#) | [GitHub](#)

- 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 | [GitHub](#)

- 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 | [GitHub](#)

- 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 | [GitHub](#)

- 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.

Data Professional Survey Report | Power BI | Power Query | [GitHub](#)

- Executed a Power BI visualization project using a professional survey dataset. Developed a dynamic dashboard report, translating raw data into actionable insights. Demonstrated proficiency in Power BI, data analytics, and report creation.

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 | Feb 2021 – 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