Sai Sujith Reddy Chagam

A detail-oriented and analytical thinker, I excel in transforming raw data into actionable insights, driving informed decision-making within fast-paced and dynamic environments. A problem-solver committed to driving informed decision-making through data-driven strategies.

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EDUCATION

University of Maryland, Baltimore County   Baltimore, MD

Master of Professional Studies – Data Science; GPA: 3.8/4.0   *Aug 2022 – Dec 2023*

Coursework: Statistics and visualization, Data management, Introduction to machine learning and data analysis, Platforms for big data processing, Data intensive computing, OS, Data Modeling

WORK EXPERIENCE

- **Mantha Tech Solutions** (Intern | Associate software developer)   *Jan 2021 – June 2022*
  1. *Produced comprehensive reports summarizing analyses, findings, and actionable recommendations.*
  2. *Effectively communicated findings using statistical methods and visualization tools for 30+ ongoing reports.*
  3. *Maintained thorough and organized documentation of data analysis workflows, code, and methodologies.*
  4. *Built data visualizations using Tableau for KPIs that reduced manual reporting by 6 hours weekly.*
  5. *Coordinated the implementation of data analysis plans that reduced processing time by 32%.*

PROJECTS

- **Modern traffic signal system**   *Nov 2020 – Dec 2020*
  1. Achieved traffic signal system accuracy using Python, CV LIB, Matplotlib, and Keras, with OpenCV for real-time data.
  2. Enhanced traffic management and safety through data-driven signal control and resource management.
  3. Leveraged Python, computer vision, and real-time analysis for efficient traffic signal adaptation, resulting in improved road safety and congestion reduction.

- **Advanced Weather Image Classification with CNNs**   *Mar 2023 – Apr 2023*
  1. Established a deep learning model using CNNs to classify patterns (sunny, cloudy, rainy, snowy) with high accuracy.
  2. Contributed to improved weather forecasting, climate modeling, and disaster response.
  3. Applied machine learning techniques to enhance the speed and precision of weather pattern recognition, benefiting various industries.

- **Stock Price Prediction with Time Series Analysis:**   *Sep 2022 – Oct 2022*
  1. Conducted in-depth analysis of stock price data, leading to the refinement of a predictive model for future stock prices.
  2. Employed time series analysis and forecasting techniques, including ARIMA and LSTM to enhance accuracy.
  3. Utilized data visualization methods to extract valuable insights into stock price trends and patterns.

- **Diabetic retinopathy detection analysis**   *Jul 2023 – Aug 2023*
  1. Pioneered deep learning models, including VGG-16, VGG-19, and DensNet-169, to detect diabetic retinopathy.
  2. Designed a Modified DensNet-121 architecture achieving a remarkable 97% accuracy in detection.
  3. Orchestrated the exploration of deep learning models in the healthcare sector, uncovering their transformative impact on patient outcomes and setting the stage for a new era of innovative research collaborations.

SKILLS

Programming: Python (tensorFlow, Pytorch, Numpy, Pandas), SQL, JAVA

Machine Learning: Clustering, Deep Learning models, Anomaly Detection, Supervised Learning, Unsupervised Learning, Natural Language Processing (NLP), Hypothesis Testing, Linear & Non - Linear Optimization, Neural Network, Statistical modeling, Automation, Reinforcement learning,

Data Analysis & Visualization tools: Tableau

Frameworks & Platforms: Hadoop, Apache Spark (Databricks), AWS, Jupiter Notebook, Visual Studio, Pytorch

Databases: MySQL, PostgreSQL

Cloud Services: AWS

Technologies: Data Warehousing, Data Wrangling, ETL, Big Data Analytics

CERTIFICATIONS

- Google Data Analytics
- Udemy: AWS Cloud Practitioner, SQL Bootcamp