Sai Sujith Reddy Chagam

Dynamic data science graduate with expertise in predictive modeling, statistical analysis, and transforming complex data into actionable insights. Passionate about leveraging analytics to drive innovation, solve real-world challenges, and propel organizational growth in the dynamic field of data science.

Ph: **+1(816)-824-6947** | Email: sujithprog@gmail.com | http://www.linkedin.com/in/sujith-reddy20

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*

- *Generated detailed reports summarizing analyses, findings, and actionable recommendations.*
- *Communicated findings through statistical methods and visualization tools across 30+ ongoing reports.*
- *Maintained meticulous documentation of data analysis workflows, code, and methodologies.*
- *Developed Tableau visualizations for KPIs, saving 6 hours weekly in manual reporting.*
- *Orchestrated data analysis plans, reducing 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 ML techniques to enhance the speed, precision of weather pattern recognition, benefiting 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 Languages: Python, SQL, R

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, Matplotlib, Seaborn, Plotly

Frameworks & Platforms: Hadoop, Apache Spark (Databricks), AWS, Jupyter, Visual Studio, Pytorch, Docker

Databases: MySQL, PostgreSQL, MongoDB

Cloud Services: AWS

Technologies: Data Warehousing, ETL, Big Data Analytics, Web Scraping, GIT, Data Governance, Time Series Analysis, Geospatial Analysis, Feature Engineering, A/B Testing, Business Intelligence (BI) Tools (Microsoft Power BI, QlikView, Looker), Containerization, Data Security, Streaming Analytics, Predictive Analytics

CERTIFICATIONS

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