

CHEKITHA SWAYAMPU

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EDUCATION

The George Washington University

Master of Data Science (GPA: 4.00/4.00)

August 2023 – May 2025

Washington, DC

Vellore Institute of Technology- AP

Bachelor of Technology in Computer Science– Data Analysis Specialization (GPA: 3.47/4.00)

July 2019 – May 2023

Andhra Pradesh, India

TECHNICAL SKILLS

Programming and Scripting Languages: Python, R, SQL, Java, JavaScript, HTML, CSS, Bash

Developer Tools and Environment: Jupyter Notebook, Google Colab, R-Studio, MATLAB, BigML, Tableau, Power BI, Apache Spark, D3.js, Visual Studio, GitHub, Git, TabPy

Libraries/Frameworks: TensorFlow, Keras, PyTorch, XGBoost, scikit-learn, Statsmodels, Prophet, SciPy, Matplotlib, Seaborn, ggplot2, Plotly, Streamlit, OpenCV, YOLO, MediaPipe, Natural Language Toolkit (NLTK)

Databases and Storage: MySQL, PostgreSQL, MongoDB, Cassandra, Neo4j, AWS RDS, AWS S3

Big Data and Cloud Technologies: AWS Glue, AWS Lambda, AWS Bedrock, Kubernetes, Microsoft Azure, GCP

EXPERIENCE

Data Scientist Intern | ZettaMine Labs Pvt Ltd.

May 2024 - August 2024

- Initiated a hybrid ARIMA and XGBoost Length of patient stay forecasting model for a healthcare provider in Python with pandas and scikit-learn on admission vitals and labs, achieving 92% accuracy for bed capacity management.
- Conceptualized exploratory data analysis in RStudio on over 3 million retail and manufacturing records, utilizing ggplot2 visualizations, correlation matrices, and clustering, to find trends that led weekly executive reports.

Data Analyst Intern | Suvega Technologies

January 2023 - August 2023

- Developed an AI/ML predictive model using ETL, data cleaning, transformation, and streamlined SQL database queries, reducing truck cycle times by 35% and enhancing fleet efficiency with robust data validation checks.
- Automated large-scale data pipelines using SQL and Python, applied data engineering practices, boosting efficiency by 92%, while coordinating in an Agile environment through stand-ups and sprint planning to optimize workflows.
- Designed and optimized 10+ Tableau dashboards by integrating different SQL-based data sources, delivering real-time analytics and collaborating with teams to meet data visualization requirements and decision-making.
- Facilitated weekly client meetings, translating complex data insights into business solutions. Simplified technical concepts for non-technical stakeholders, enabling data-driven decisions and aligning analytics with operational goals.

PROJECTS

Temperature Forecasting using Time Series Techniques | GWU

January 2025 – April 2025

- * Engineered an ETL pipeline to import and preprocess 2.9 million US daily temperature records using datetime parsing, statistical analysis, IQR outlier elimination, lag/rolling features, seasonal indicators, label encoding.
- * Architected and benchmarked ARIMA, SARIMA, Random Forest, XGBoost, and LSTM forecasting models using RMSE, MAE, and R²; identified XGBoost (RMSE 3.74 °F, MAE 2.87 °F) as most accurate and reduced error by 44%.
- * Made PowerBI and Plotly dashboards visualizing actual vs. predicted temperatures, error analysis and distributions.

Impact of Weather on Energy Consumption Using AWS Cloud Services | GWU

August 2024 – December 2024

- * Implemented a predictive model in AWS SageMaker to forecast energy consumption using historical weather data.
- * Built a data pipeline using AWS Glue for ETL and S3 for storage, enabling efficient data ingestion and preprocessing.
- * Visualized energy consumption trends and model predictions using AWS QuickSight, providing actionable insights.

Multi-Feature Evaluation On Facial Data Using CNN | VIT

October 2022 – December 2022

- * Led a three-person team to deploy an Artificial Intelligence and Machine Learning, production grade, GPU-optimized TensorFlow CNN in Python for live face attribute classification, achieving 96% gender and 93% emotion accuracy.
- * Enhanced facial detection by combining OpenCV and TensorFlow with MediaPipe's 468-point 3D face model, enabling real-time inference and identification of facial characteristics and eye movements under varied lighting.

CERTIFICATIONS

- * Certification of Salesforce AI Associate- Salesforce
- * Certification of Advanced Data Analytics Tools- Vellore Institute of Technology