**CHEKITHA SWAYAMPU**

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**EDUCATION**

**George Washington University**, Washington, DC. May 2025

● MS, Data Science; GPA: 4.0

**Vellore Institute of Technology***,* Amaravathi, India May 2023

● B.Tech, Computer Science with Spec in Data Analysis; GPA: 3.47

**TECHNICAL SKILLS**

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

**Tools and Environment:** Jupyter Notebook, Google Colab, RStudio, Tableau, Power BI, Apache Spark, Git, GitHub

**Libraries:** scikit-learn, XGBoost, TensorFlow, Keras, PyTorch, Statsmodels, Prophet, NumPy, Pandas, SciPy, NLTK

**Databases and Storage:** PostgreSQL, MySQL, MongoDB, AWS (S3, RDS)

**Cloud Technologies:** AWS (SageMaker, Glue, Lambda, QuickSight), Google Cloud Platform (GCP), Microsoft Azure

**Certifications:** AWS Certified Data Engineer Associate, Oracle Cloud Infrastructure 2025 Certified Data Science Professional

**PROFESSIONAL EXPERIENCE**

**Data Scientist**, ZettaMine Labs Pvt Ltd. – Hyderabad, India May 2024 – August 2024

● Developed and optimized a time series forecasting model with 92% accuracy to predict daily bed occupancy across hospital departments, enabling better resource allocation and workforce planning.

● Gathered and unified 3M+ multi-format clinical records to validate insurance claims and extract patient demographics; performed clustering, correlation analysis, and ggplot2 visualizations to uncover data-driven patterns.

**Data Analyst**, Suvega Technologies – Hyderabad, India January 2022 – August 2023

● Developed 10+ interactive Tableau dashboards by preprocessing vehicle trip data in Python sourced from SQL; integrated insights via TabPy to deliver real-time analytics on cargo efficiency and vehicle performance.

● Traced cargo weight discrepancies and used SQL to flag fault trackers and detect missing or incomplete delivery trips; crafted dashboards to monitor on-time delivery (OTD), fleet utilization, and trip completion rates.

* Reduced truck cycle times by 35% by analyzing GPS trip and delivery log data to uncover routing inefficiencies; collaborated with engineering team to embed optimization logic into a driver-facing application for real-time guidance.
* Resolved delivery location errors by analyzing historical geographical data (latitude and longitude) to model nearest successful drop-off points within city zones, enabling rerouting to verified locations and reducing delivery failures.
* Identified profit trends across cities and states, visualized KPIs like store profitability and delivery efficiency, forecasted sales across individual stores, and presented insights to managers and non-technical stakeholders.

**SQL Data Analyst**, RSSC Solutions - Chennai, India January 2021 – December 2021

● Reduced quality issues by 23% through root cause analysis of defects and inspection logs; detected wear-off patterns and failure durations using trend analysis to enable targeted operational interventions.

* Collaborated with operations managers to standardize manufacturing data from disparate sources; built Python ETL pipelines to validate and load 85% of records into scalable PostgreSQL schemas for reliable downstream analytics.

● Cleaned noisy SKU datasets by concatenating image URLs and bulk-downloading 10-view product images per SKU using Python; prepared structured templates with ID-based logic to update SKU activation status via backend bulk re-uploads.

**PROJECT EXPERIENCE**

**Temperature Forecasting using Time Series Techniques** January 2025 - May 2025

● Led a team of 3 to analyze 2.9M U.S. daily temperature records and forecast short- and long-term trends using machine learning, deep learning, and time series models; applied feature engineering, statistical analysis, and encoding.

● Visualized forecast results and actual vs predicted trends using Power BI and Plotly for easy stakeholder interpretation

**Impact of Weather on Energy Consumption** August 2024 – December 2024

● Trained a regression model in AWS SageMaker to forecast energy usage; explained 95% variance in the target variable.

● Established a scalable ETL pipeline using AWS Glue and S3 for seamless data ingestion and preprocessing; engineered data transformations to support modeling workflows and visualized consumption and predictions in AWS QuickSight.