

# 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, Apache Spark, Kubernetes, Microsoft Azure, GCP

## EXPERIENCE

### Data Analyst Intern | Suvega Technologies

January 2023 - July 2023

- Developed a Python 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 collaborating 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

### 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.

### Walmart Sales Forecasting Model | GWU

January 2024 – May 2024

- Developed a machine learning model using Time Series Analysis to forecast Walmart sales trends with ARIMA, SARIMA, and LSTM, incorporating historical data, seasonal patterns, holidays, and promotions to enhance accuracy.
- Evaluated models using RMSE and MAE, selecting LSTM (RMSE: 3.56, MAE: 4.29) as the best, improving forecasting accuracy by 15% through data scaling, lag features, and rolling averages for better trend detection and stability.

### Multi-Feature Evaluation On Facial Data Using CNN | VIT

October 2022 – December 2022

- Led a three-person team to create a Python-based Deep Learning CNN model trained to detect facial age, emotion, and gender; communicated findings and processed over 60K images during training, resulting in high accuracy.
- Enhanced facial recognition model using OpenCV and TensorFlow, leveraging 3D face mesh with 468 key points for real-time identification via live camera and accurate detection of minor facial features and eye movement.

## CERTIFICATIONS

- Certification of International Internship in Data Science- Andhra Pradesh State Skill Development Corporation
- Certification of Salesforce AI Associate- Salesforce
- Certification of Introduction to Data Analytics by IBM- edX
- Certification of Advanced Data Analytics Tools- Vellore Institute of Technology
- Certification of Introduction to OpenShift Applications- RedHat
- Certification of Shell Scripting with Bash: Basics- Coursera Project Network