

# Shiva Teja Ippili

Washington D.C | Ph: +1 7038593593 | [shivatejaippili@gmail.com](mailto:shivatejaippili@gmail.com) | [Portfolio](#) | [GitHub](#) | [LinkedIn](#)

## EDUCATION

### Master of Science – Data Analytics Engineering

Aug 2023 – May 2025

George Mason University - Fairfax, VA

**Courses:** Database Management and Mining, Big Data, Applied Statistics

### Bachelor of Technology- Computer Science and Engineering

Aug 2016 – Sep 2020

GMR Institute of Technology, Rajam, India

**Courses:** Operating Systems, OOPs, IoT, Data Structures, Cloud computing, Data Mining

## SKILLS

**Programming & Data Analysis:** Python (Pandas, NumPy, Matplotlib, Seaborn), R, SQL, C++, JavaScript

**Data Visualization & BI Tools:** Tableau, Power BI, Matplotlib, Seaborn, Plotly

**Databases:** MySQL, PostgreSQL, MongoDB, NoSQL

**Big Data & Cloud Platforms:** Apache Spark, Databricks, AWS (S3, Redshift), Google BigQuery

**Data Wrangling & ETL:** SQL, Python (ETL Pipelines), Excel (Advanced Functions, Power Query)

**Web & Development Frameworks:** HTML, CSS (Tailwind, Bootstrap)

**Tools & Environments:** Jupyter Notebook, VS Code, SAP, Android Studio, Firebase

**Operating Systems:** Windows, MacOS, Linux

## EXPERIENCE

### Wipro Technologies, Bangalore

April 2021 – July 2023

#### Data Analyst | SAP | Python & Java Automation

- Built automated data pipelines in Python and Java to process large-scale datasets, cutting reporting time from hours to minutes and improving productivity by 40%.
- Leveraged SAP reporting tools to generate actionable insights, enabling management to make faster, evidence-based decisions that increased project delivery efficiency by 12%.
- Designed interactive dashboards and KPI trackers, improving visibility into project performance and helping leadership prioritize high-impact initiatives.
- Collaborated with cross-functional teams to align analytical outputs with business goals, directly contributing to a 10% increase in client satisfaction scores.

### CIITS, Visakhapatnam

May 2018- July 2018

#### Internship | Cyber Security

- I received specialized training in Privacy Protection-based Access Control Schemes for cloud-based services. The focus was on implementing secure access management protocols to enhance data privacy, confidentiality, and authentication mechanisms in cloud computing environments.

## PROJECT

### Jigsaw Unintended Bias in Toxicity Classification | NLP, Machine Learning

Oct 2024–Dec 2024

• Developed a deep learning model for unintended bias detection in toxicity classification using NLP techniques with TensorFlow and PyTorch. Pre-processed 350K+ text records, applied BERT embeddings, and fine-tuned a transformer model, achieving a 15% reduction in false positives and enhancing fairness across diverse demographic groups.

### Building Bridges to Last | Databricks, AWS

Aug 2024 – Dec 2024

• Analyzed bridge material performance using PySpark on Databricks, comparing reinforced concrete and weathering steel for durability. Processed large-scale environmental and traffic datasets from MongoDB and applied machine learning models to predict degradation patterns, leading to optimized bridge design recommendations that improved structural longevity and reduced maintenance costs by 30%.

### n-SAC Computer Vision Project | Computer Vision, Deep Learning

Jan 2025 – May 2025

• Developed a hybrid pipeline combining classical and geometry-driven method (n=SAC) to detect shadows with 90%+ accuracy. Processed large synthetic and real-world datasets, applied image preprocessing and feature extraction techniques, and generated data insights to improve detection performance in complex environments.