### SHWETA VINOD KULKARNI

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#### PROFESSIONAL SUMMARY

An outcome-focused expert with **5+ years** of experience in **Data Engineering and Analytics**, driven by data. Has led **2 projects** with cross-functional teams, delivering impactful projects on time and within budget.

#### **EDUCATION**

University of South Florida

Master of Science in Business Analytics and Information Systems

Aug 2023 - May 2025 | GPA - 4/4

Yeshwantrao Chavan College of Engineering

Bachelor of Engineering, Electronics and Telecommunication Engineering

Aug 2014 - Jun 2018 | CGPA - 8.7/10

# **TECHNICAL SKILLS**

Languages: C#, Python (Pandas, NumPy, Scikit Learn, etc.), R, VBA, SQL, HTML, CSS, JavaScript

Databases: Oracle, MySQL, PostgreSQL, NoSQL

Tools: Jenkins (CI/CD), Jupyter Notebook, RStudio, Pivot Table, GitHub, Apache Airflow, Docker, Kubernetes, AWS

**Data Warehousing:** ETL (Extract, Transform, Load), Apache Kafka, Confluent Kafka, Informatica PowerCenter, PySpark

**Visualization Tools:** Tableau, MS Power BI, MS Excel, Qlik Sense, Looker Studio, Amazon QuickSight

Analytics Skills: EDA, Data Cleaning, Data Visualization, Data modeling, Business Intelligence

Project Management: Agile, PowerPoint, Scrum, JIRA, Kanban, Confluence

# **WORK EXPERIENCE**

### **GRADUATE RESEARCH ASSISTANT (University of South Florida)**

Jan 2024 - Present

- Took the lead in producing detailed reports with **Tableau**, examining Tampa Bay's economic performance in key aspects like economic outcomes, affordability, and talent pipeline, benchmarked against 20 Metropolitan Statistical Areas (MSAs), informing nearly **500 companies'** decision-making processes.
- Worked closely with faculty and colleagues to collect, analyze, and visually convey data using **Python**, offering insightful perspectives and shaping policy recommendations for advancing the region's economic standing. restructured communication flow among **10 departments** and cut down paperwork by **75%.**

# **DATA ENGINEER, Deloitte (Client - State Auto Insurance)**

Jan 2022 - Jul 2023

- Led the entire Software Development Life Cycle (SDLC) or ETL data pipelines in Informatica PowerCenter, achieving a 93% success rate in transitioning workflows to Kafka for seamless integration
- Employed advanced data modeling techniques and SQL Trace to enhance database **performance by 15%.** Applied **business intelligence** principles ensuring accurate data modeling and mapping for insightful reporting.
- Analyzed rental car market trends using data visualization tools, resulting in strategic recommendations that led to a **15% revenue increase**. This involved extracting, transforming, and analyzing **large datasets** to identify key trends and growth opportunities.

# DATA ANALYST, Tata Consultancy Services (Client – Avis Budget Group)

Sep 2018 - Jan 2022

- Applied agile methodologies to data engineering projects, demonstrating an entrepreneurial approach by leading and mentoring a team of three, conducting code reviews, and offering guidance, resulting in a 30% reduction in project delivery time.
- Engineered data pipelines with PySpark and Spark, optimizing policy processes and enhancing customer satisfaction with a 40% reduction in processing time and a 25% increase in satisfaction.
- Collaborated with cross-functional teams to implement software enhancements using **SQL**, achieving a **17% increase** in application performance and functionality.
- Led data transformation initiatives, including Python-based data-driven customer segmentation, boosting conversion rates by 20% and driving \$500k annual revenue growth through operational enhancements and industry trends analysis.

# **ACADEMIC PROJECTS**

# YouTube Trending Video Analysis

- Designed and implemented a scalable data pipeline using **AWS Glue ETL** to transform over **100k** records securely stored in an S3 bucket. Employed **Lambda** functions for JSON data cleaning and preprocessing, converting it into optimized parquet format with automated file load triggers, reducing manual effort by **10%**.
- Utilized **QuickSight** for analyzing engagement metrics to identify top-performing videos and enhance marketing strategies accordingly.

### **Realtime Data Streaming Pipeline**

- Developed an end-to-end Data Engineering project using **Spark, Kafka, Airflow, Docker, Cassandra, and Python**. Containerized all components with **Docker** for seamless integration and scalability.
- Automates data fetching from an API with scheduled scripts, routing it to **Kafka** using Airflow, and processing it with Spark Structured Streaming; stored results in **Cassandra**, reducing data latency by **50%**.

### **Netflix Explorer**

- Engineered a scalable Netflix dashboard on Tableau, enabling streamlined integration and analysis of over 50k records.
- Applied advanced data analytics techniques to uncover insights, significantly improving user preference understanding by 2x.

# **CERTIFICATIONS**

- Microsoft Certified Power BI Data Analyst
- AWS Certified Solutions Architect Associate
- Microsoft Certified Professional in HTML, CSS and JavaScript