SHWETA VINOD KULKARNI

Tampa, FL-33613 | (813)4520574 | kulkarnishwetavinod@gmail.com | LinkedIn | GitHub | Tableau | Portfolio

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