

AAKANKSHA SANTOSH SONAWANE

2.5+ years combined experience in software engineering and business analytics roles across enterprise and research settings.

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EDUCATION

Syracuse University | M.S. Information Systems | GPA - 3.8

August 2023 - May 2025

Savitribai Phule Pune University | B.E. Information Technology | GPA - 3.6

August 2017 - May 2021

TECHNICAL SKILLS

Languages:	SQL, Python (Pandas, NumPy, Matplotlib, Seaborn), R, C#, ReactJS, HTML, CSS, Bootstrap.
Data Analysis & Visualization:	Excel (Power Query, Power Pivot, Pivot Tables, Macro, VBA) Power BI, Tableau, Looker.
Databases:	MySQL, SQL Server, Oracle, PostgreSQL, MongoDB
Cloud-Based Development:	Google Colab, GitHub, AWS, Azure DevOps, Jenkins, Kubernetes, GitLab CI/CD, Snowflake.
Tools and Platforms:	Postman, Azure DevOps, GitHub, Jira, Visual Studio, Jupyter, Eclipse
Managerial Skills:	Agile Methodologies, Scrum, SDLC, Stakeholder Communication, User Stories

WORK EXPERIENCE

Data Engineer | iConsult Collaborative at Syracuse University | Syracuse, NY

August 2024 – May 2025

- Partnered with Phairify, a physician compensation analytics platform, to enhance their job market intelligence.
- Built a scalable pipeline to scrape, store, and analyze physician job data for salary benchmarking.
- Developed Python-based scrapers using TDD and mock HTML files, stored job listings as structured .csv files for SQL-based querying and built Tableau dashboards to visualize job trends and compensation gaps.
- Delivered clean datasets and automated workflows that supported Phairify's business development and BI efforts.

Software Developer | Nihilent Ltd | Pune, India

August 2021 – March 2023

- Developed a custom **ETL workflow** using Python and SQL to extract raw financial transactions (Excel reports, SQL Server, and legacy APIs), accelerating monthly financial closes by 40% and ensuring consistency across financial dashboards.
- Automated **36+** Python, SQL, and Excel scripts for data manipulation and reporting, reducing manual processing time by 30%.
- Implemented VBA and SQL-driven Excel financial reports, developing key components with .Net, achieving a 40% reduction in reporting cycle time and improved data accuracy, eliminating manual errors.
- Reduced project delivery time by 15% while enhancing system functionality and reliability through rigorous testing and debugging.

Training Project: WealthMitra (Financial Advisory System) & Asset Management Platform. ([GitHub](#))

- Led a 7-member Agile team to design and deploy a secure financial advisory system using full **SDLC principles**.
- Delivered comprehensive wealth management solution while managing project timeline and cross-functional collaboration.
- Authored Software Requirements Specifications (**SRS**) and Orchestrated Agile project execution through **Azure DevOps** integration, managing **CI/CD** pipelines via Jenkins while leveraging SoapUI for API testing and Tableau for data analytics.
- Improved user experience and system productivity, resulting in 95% client satisfaction rate and 20% faster processing times through strategic planning, streamlined communication and collaborative development leadership.

PROJECTS

Uber-Rides Data Analysis. ([GitHub](#))

April 2025

- Analyzed 1,000+ Uber ride records to uncover hourly and daily patterns, driving time-targeted marketing insights.
- Delivered insights on peak demand periods by analyzing hourly ride volume trends; insights drove a 12% boost in targeted promotions.
- Streamlined data cleaning by 35% with Pandas and developed interactive Tableau dashboards for actionable insights.

Energy Consumption Prediction. ([GitHub](#))

April 2024

- Built an end-to-end **ETL pipeline** to extract, clean, and transform over 4M energy consumption records from multiple sources.
- Integrated and analyzed with 100+ variables using R, Python, and ggplot2 for EDA and feature engineering.
- Assembled predictive models to forecast hourly energy demand, improving 95% forecasting accuracy with augmented weather data.
- Designed an interactive Shiny application, visualizing energy consumption trends for data-driven decision-making.

Reddit WallStreetBets Sentiment Analysis ([GitHub](#))

December 2023

- Built NLP pipelines to analyze WallStreetBets sentiment using **Python, Vader, GloVe**, and **LSTM** models.
- Optimized data workflows with Pandas, improving model efficiency by 20% and reducing processing time by 29%.
- Created vibrant visualizations with Matplotlib and Seaborn to support data-driven decision-making.

IoT – Based Smart Farming

April 2021

- Optimized SQL queries for irrigation and productivity data, reducing response time by 40% and enabling faster decision-making.
- Revamped internal reporting schema around key agricultural KPIs, cutting dashboard load time by 45%.
- Developed and deployed a smart soil moisture sensor system capturing real-time data from 50+ samples.

LEADERSHIP AND ACHIEVEMENTS

- Student Manager: SU Food Services** - Trained 200 student workers, ensured food safety compliance and managed payroll.
- Served as **interim Scrum Master** at Nihilent, leading agile ceremonies.
- Appreciation and Recognition Award from the **Agricultural Department, Pune** for the final year project, May 2021.