AAKANKSHA SANTOSH SONAWANE

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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 & CERTIFICATIONS

Languages: SQL, Python (Pandas, NumPy, Matplotlib, Seaborn), R, C#, ReactJS, HTML, CSS, Bootstrap.
Data Engineering & Pipelines: ETL/ELT, Apache Airflow, API Integration, Data Pipeline Automation
Data Analysis & Visualization: Excel (Power Query, Power Pivot, Statistical analysis, 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, Docker
Tools and Platforms: Postman, Jira, Visual Studio, Jupyter, Eclipse.
Managerial Skills: Agile Methodologies, Risk Management and Mitigation, 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.
- Constructed a scalable pipeline to scrape, store, and assess physician job data for salary benchmarking.
- Developed **Python**-based scrapers employing **TDD** and mock **HTML** files, stored job listings as structured **.csv files** for **SQL**-based querying and designed **Tableau** dashboards to render job trends and compensation gaps.
- Presented results through clean datasets and automated workflows supporting Phairify's business development and **BI** efforts.

Software Developer | Nihilent Ltd | Pune, India   *August 2021 - April 2023*

- Oversaw Agile sprint delivery for financial systems of a leading African entertainment firm.
- Spearheaded **CI/CD automation** of 36+ scripts (SQL, Python, Excel) and **.Net** for Developing, eliminating manual efforts by 30%.
- Diagnosed and resolved 15+ production issues using Visual Studio, Postman, and Azure DevOps.
- Produced capacity improvement of 20% through code optimization and **SDLC enhancements**.
- Collaborated with **cross-functional teams** to implement process changes, ensuring lasting adoption and reliability.

Interim Scrum Master

- Led team as interim Scrum Master, driving daily stand-ups, sprint planning and ensuring velocity and sprint commitments.
- Acted as primary liaison, rolled out status updates to leadership and aligning with Solution Analysts on backlog prioritization.
- Tracked sprint velocity and removed blockers via Azure DevOps to maintain delivery momentum during critical transition.

Trainee Software Engineer | 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**.
- Executed comprehensive wealth management solution while organized project timeline and cross-functional collaboration.
- **Invented and simplified** development by authoring **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

Weather Data ETL Pipeline (GitHub)   *June 2025*

- Built an automated **ETL pipeline** using **Apache Airflow**, **Docker**, and **PostgreSQL** to schedule, log, and process daily weather data.
- **Optimized** task orchestration with **Airflow DAGs** and **modular operators**, reducing pipeline runtime by **30%**.

Uber Ride Behavior Analysis (GitHub)   *May 2025*

- Cleaned & visualized usage trends from 1K+ records leveraging Tableau.
- Identified **40%** surge in weekend ride volume—informing marketing strategies.

Energy Consumption Prediction (GitHub)   *April 2024*

- Integrated 4M+ records implementing **R/Python** to engineer features and uncover key insights through **EDA**.
- Designed an **interactive Shiny application**, depicting energy consumption trends for **data-driven decision-making**.

Comparative Analysis of Risk Response – BP & Public Health England (GitHub)   *February 2024*

- Analyzed incidents of human error, identifying 3 key improvement areas and 5 operational gaps in crisis response frameworks.
- Issued strategic recommendations enhancing risk preparedness and cut response delays by an estimated **20%.**

Reddit WallStreetBets Sentiment Analysis (GitHub)   *December 2023*

- Engineered **NLP** pipeline using **Python** (**Vader**, **GloVe**, **LSTM**) to evaluate Reddit sentiment at scale.
- Improved model speed by **30%** and efficiency by **20%** via optimized **Pandas** workflows.

LEADERSHIP & AWARDS

- **Student Manager: SU Food Services -** Trained 200 student workers, ensured food safety compliance and directed payroll.
- Appreciation and Recognition Award from the **Agricultural Department, Pune** for final year project, May 2021.