

# MAYURA VARTAK

[mvartak@syr.edu](mailto:mvartak@syr.edu) | +1 (315) 832-0854 | Syracuse, NY | [LinkedIn](#)

## EDUCATION

**School of Information Studies, Syracuse University, Syracuse, NY** **May 2025**

Master of Science in Information Systems | Certificate of Advanced Studies in Data Science

**Relevant Courses:** *Data Admin Concepts & Database Management, Introduction to Data Science, Data Analysis & Decision Making, Information System Analysis, Cloud Management, Natural Language Processing, Managing Info Systems Projects, Enterprise Risk Management, Advanced Big Data Management*

**University of Mumbai, Mumbai, India**

**Jul 2021**

Bachelor of Engineering in Mechanical

## SKILLS

**Programming Languages:** Python, R, SQL, C, C++, HTML, Shell scripting

**Libraries:** NumPy, Pandas, PySpark

**Software:** Cloud (AWS, Azure), Tableau, Power BI, Git, Docker, Hadoop, MS Excel

**Data Skills:** Data modelling & Visualization, Data cleaning, Natural Language Processing, Data collection, Business analysis

**Certifications:** Tableau Desktop Specialist, Microsoft Office Specialist: Excel 2019 Associate

**Soft Skills:** Story telling with data, Analytical thinking, Problem-Solving, Attention to Detail, Collaboration

## PROFESSIONAL EXPERIENCE

**Tata Consultancy Services, Mumbai, India**

**Oct 2021 - Jul 2023**

*Systems Engineer, Configuration Management - State Bank of India*

- Led a team of 10 members towards completion of tasks such as error resolution across various environments, post-production support and hotfixes in addition to achieving basic project objectives.
- Prepared billing vitals for 25 associates in accordance with the norms set by clients for financial transactional records between vendor - TCS and client - SBI.
- Initiated and developed python and shell scripts, including those for automating the billing process, resulting in a remarkable transformation of a three-day task into a streamlined five-minute operation, substantially boosting operational efficiency.
- Created documentation and trained new hires by outlining project requirements, providing an overview of the necessary skills, and delivering technical guidance.

## PROJECTS

**Data Pipeline and Visualization on Azure**

- Designed a scalable data pipeline for processing and visualizing large datasets to deliver actionable business insights.
- Built an end-to-end cloud solution to extract, process, and visualize data efficiently using Azure services.
- Developed an end-to-end data pipeline using **Azure Data Factory**, **Databricks**, **Data Lake**, **Storage Accounts**, and **Synapse Analytics** for ETL, processing, storage, and real-time analytics, and created interactive dashboards in **Power BI** to deliver actionable insights.
- Improved data processing efficiency by 40% and delivered real-time insights, enabling better decision-making.

## PUBLICATIONS

**Fire Fighting Robot**

**Jan 2021 - May 2021**

- Initiated and led a comprehensive, cross-disciplinary project that melded programming using Python3, electronics, and mechanical engineering expertise to develop a working model of fire-fighting robot.
- Co-authored and published in an international journal with my team:

[IJSREM-Fire-Fighting-Robot-Paper-Publication](#)

**Data Security and Security Breaches: Impact Analysis and Prevention Measures**

**Oct 2021**

[IJSREM-Data-Security-Security-Breaches-Impact-Analysis-and-Prevention-Measures](#)