

SHRUSTI SUVARNA

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EDUCATION

Rochester Institute of Technology (RIT) – Rochester, NY

Master of Science, Business Analytics (Aug 2024 – May 2026)

Relevant Courses: Financial Analytics, Data Management for Business, Business Intelligence, Accounting Analytics (planned)

University of Mumbai – Mumbai, India

Bachelor of Engineering, Electronics & Telecommunication (Aug 2018 – Jul 2022)

Relevant Courses: Statistical Modelling, Big Data, Project Management

WORK EXPERIENCE

Saunders College of Business (RIT)

Rochester, NY

Research Assistant

Aug 2025 – Present

- Supporting faculty research in **finance & data-driven decision-making**.
- Collected and synthesized **250+ journal articles**, identifying market trends & strategic insights.
- Built **structured Excel databases** to track research content; presented findings in clear **data storytelling formats**.

OneTure Technologies

Mumbai, India

Software Engineer

Feb 2023 – Aug 2023

- Implemented a data pipeline for **stock market analytics** using **Python, Selenium, and Yahoo Finance APIs**, including data **scrapping cleaning, fuzzy matching, and structured database management**.
- Extracted financial data from the **Bombay Stock Exchange** open-source webpage, applying **statistical analysis** to identify key trading patterns.
- Automated end-to-end **workflows** by integrating **AWS S3 (storage), EC2 (server), and Lambda (scheduling)** to ensure scalable and efficient data collection and processing.

The Sparks Foundation

Mumbai, India

Data Analyst Intern

May 2021 – Nov 2021

- Engineered large financial datasets using **Excel**, reducing data inconsistencies by **25%** and ensuring compliance with audit standards.
- Developed interactive **Tableau dashboards** to monitor **KPIs** such as loan default rates, customer acquisition costs, and branch-level performance, accelerating executive reporting by **40%**.
- Executed advanced statistical analysis and **regression modelling** to identify risk factors driving loan defaults, enabling the risk management team to improve portfolio forecasting accuracy by **15%**.
- Leveraged **Google Analytics** to track digital banking customer behavior, uncovering key drop-off points in the loan application process and contributing to a **12% increase in online conversion rates**.

PROJECTS

Auto Proctoring System (Capstone Project)

- Led the development of an AI based Auto Proctoring System and used **JIRA** project execution, ensuring timely delivery and effective collaboration.
- Engineered a cheating detection machine learning model using the YOLO Algorithm, which optimized system performance and attained an accuracy of **99.71%** with a mean average precision of **61.5%** and used RESTful APIs to integrate system components.

Tableau HR Dashboard Project

- Designed an interactive dashboard tracking attrition, **employee demographics**, and job satisfaction across **1,470 employees**.
- Improved **HR visibility** and reduced reporting time by **50%**, enabling leaders to act on attrition risks and resource allocation.

SKILLS

- Languages:** *Python, Java, SQL, HTML, CSS, JS, R.*
- Cloud Technologies:** *AWS*
- Libraries & Frameworks:** *Django, Flask, Pandas, PyTorch, TensorFlow, SkLearn.*
- Tools:** *Power BI, MS Office, Tableau, JIRA, GitHub.*
- Hands-on Skills:** *Agile, Scrum Database Management, OOP, Data Analysis and Visualization.*

CURRENT INTERESTS AND LEARNING

- Actively **Learning Finance and Quantitative Modelling for Analysts** from **University of Pennsylvania**
- Exploring **credit risk modeling & stress testing with ML**.