

ARYAN MODI

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EDUCATION

University at Buffalo — SUNY

Aug 2025 – Dec 2026

Master of Professional Studies in Data Science — GPA: 3.5/4.0

- *Relevant Coursework:* Reinforcement Learning (CSE 546), Intro Machine Learning (EAS 574), Cybersecurity, Privacy & Ethics (CDA 551), Fundamental Computational Science (CDA 511), Database Management Systems (CDA 502), Statistical Data Mining I & II (CDA 541, CDA 532), Programming for Data Science (EAS 503)

GLS University

Jun 2021 – May 2024

Bachelor of Business Administration (Accounting & Finance)

- *Specialization coursework included Financial Risk Management (FRM), Financial Accounting, Financial Reporting, and Corporate Finance*

SKILLS

Programming & Tools: Python, SQL, R, Excel, Tableau, Power BI

Data Science & ML: Statistical Data Mining, Predictive Modeling, Exploratory Data Analysis, Data Visualization (Tableau, Power BI, Matplotlib, Seaborn)

Business & Finance: Financial Accounting, Financial Reporting, Corporate Finance, Financial Risk Management (FRM), Business Analytics

Databases: MySQL, PostgreSQL, Database Management Systems

Methodologies: Agile, Survey Research, Consumer Analytics, Financial Analytics

Cybersecurity & Governance: Cybersecurity Fundamentals, Data Compliance, Data Security, Data Governance, Policy Management, Policy Drafting, AI for Research

Version Control: Git, GitHub

Collaboration & Issue Tracking: Jira, Confluence, Slack

Soft Skills: Strategic Planning, Critical Thinking, Cross-functional Collaboration, Multilingual (English, Hindi, Gujarati)

AI Tools: Claude (Claude Code, Claude Cowork, Claude Skills), Model Context Protocol (MCP), ChatGPT, Gemini, Antigravity, AI-assisted software development, prompt engineering

PROJECTS

Heart Failure Risk Prediction App

Spring 2026

- Built a Streamlit front end connected to a FastAPI backend serving a machine learning model that estimates cardiovascular/heart-failure risk, as a hands-on introduction to deploying ML models behind an API.
- Iterated on the app's layout and styling to make model output easier to read for a non-technical user.

Consumer Perception of Credit Card Use and Services

2024

- Designed and executed a survey study with **300+ participants** to quantify consumer awareness and adoption patterns of credit card usage across demographics.
- Analyzed survey data to find that **73.5%** of respondents reported satisfaction with credit card services and would recommend usage to others, revealing strong positive perception beyond standard reward incentives.
- Applied descriptive and inferential statistics to identify key drivers of credit card adoption, producing actionable insights for financial institutions targeting underserved consumer segments.

Database Design and Query Optimization

Fall 2025

- Designed normalized relational schemas and wrote complex SQL queries as part of CDA 502 coursework, applying entity-relationship modeling to realistic business scenarios.
- Optimized query performance using indexing strategies and join optimization techniques on large datasets.

Statistical Predictive Modeling

Spring 2026

- Built and evaluated classification and regression models (decision trees, logistic regression, k-NN) in CDA 541 and CDA 532 coursework, focusing on model selection, cross-validation, and performance metrics.
- Applied feature engineering and dimensionality reduction techniques to real-world datasets, improving model accuracy through iterative experimentation.

EXPERIENCE

Independent Research Project

2023 – 2024

GLS University, Ahmedabad, Gujarat

- Led end-to-end consumer research study on financial product adoption, handling survey design, data collection from **300+ respondents**, statistical analysis, and stakeholder presentation.
- Communicated research findings to academic panel, translating quantitative results into clear business recommendations for financial service providers.