

## EDUCATION

### Master's of Science in Information Technology

Aug'22 – May'24

#### Arizona State University | Arizona US

Coursework: Cloud Computing, Data Visualization, Statistical Machine Learning, Big Data Analytics, Project Management, Deep Learning, Natural Language Processing

## TECHNICAL SKILLS

**Programming:** Python, SQL, HTML, CSS

**Frameworks/Tools:** Pandas, NumPy, Scikit-learn, NLTK, Flask, Tableau, Power BI, SSIS, Git, VS Code

**Cloud Technologies and Databases:** AWS (S3, EC2), Azure, Postgresql, Oracle, Microsoft SQL Server, Google Big Query, Google cloud functions

**AI Practices:** Natural Language Processing (NLP), Sentiment Analysis, Text Classification, Regression Analysis, Data Visualization, Predictive Modeling, Fast API'S , Pydantic Models, Kedros

## PROFESSIONAL EXPERIENCE

### Business Analyst II , Rogue Lumen

March 2025 – Present

- Led competitive data synchronization by automating data extraction and pipeline processes (GCP BigQuery to Neo4j), which boosted reporting efficiency by 25% and ensured timely strategic analysis for Joor and Ziosk clients.
- Automated key business communications using an AI-based solution that translated natural language into formatted content, reducing manual processing time by 40% for critical client outreach.
- Drove compliance and operational efficiency by designing secure, scalable workflows for multi-source data ingestion, enhancing reporting speed and maintaining data governance standards across all client platforms..
- Implemented scheduled Neo4j data extraction using Python and LLaMA tokenization for Ziosk, improving data freshness and update efficiency by 30%.
- Refactored high-complexity SQL queries and ETL workflows, accelerating data retrieval speeds by 40% and reducing incident resolution time by 25% through optimized system logic.

### Business Analyst – AI Development, Arizona State University

May 2024 – Feb 2025

- Collected and integrated data from 15+ nuclear power data centers across U.S. states, creating a centralized repository to support regulatory reporting and performance benchmarking.
- Developed a scalable data pipeline to automate extraction from Excel, transformation in Python, and storage in MySQL and AWS S3, reducing manual processing time by 70%.
- Conducted market research and enhanced customer feedback analysis (via a sentiment pipeline), improving predictive planning accuracy by 35% for state-wise cost and efficiency trends.
- Developed scalable processes to integrate critical data from diverse sources (Excel, MySQL, AWS S3), successfully reducing manual data preparation time by 70% for strategic analysis.

### Data Analyst , Tata Consultancy Pvt LTD | Hyderabad, India

June 2019 – July 2022

- Designed a suite of 100+ interactive Tableau dashboards, automating real-time service metric tracking and eliminating 50% of manual reporting overhead.
- Refactored high-complexity SQL queries across 15+ client projects, accelerating data retrieval speeds by 40% and optimizing database performance.
- Spearheaded cross-functional data audits to identify billing discrepancies and streamline ITSM workflows, yielding a 20% revenue uplift.
- Engineered data enhancement frameworks that reduced incident resolution time by 25%, improving system reliability and stakeholder trust.
- Standardized reporting protocols for TPG Telecom, transforming fragmented datasets into actionable executive insights through scalable visualization logic.

## PROJECTS

### Stock Price Analysis with Machine Learning

Dec'24

- Developed a sentiment analysis pipeline using **NLTK and Hugging Face Transformers** to process financial news and social feeds. By quantifying market sentiment, improved the correlation between news signals and short-term price movements, increasing prediction accuracy over traditional baseline models..

### Housing Market Analysis Using Neo4j Graph Database

Nov'24

- Designed a **Neo4j** graph database model to analyze SF housing process data, capturing relationships between properties, neighborhoods, and pricing trends. Leveraged graph queries to uncover insights and visualize housing market patterns for better decision-making.