# EDUCATION

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New York

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**Syracuse University –** School of Information Studies, Syracuse, New York **August 2023 - May 2025**

Master’s Degree, Applied Data Science

**Coursework:** Applied Machine Learning, Quantitative and Statistics Reasoning for Data Science, Business Analytics, Scripting for Data Analysis, Big Data Analytics, Data Warehouse, Visual Analytics Dashboards, Scripting for Data Modeling, Database Management Systems, NLP, Deep Learning

# SKILLS

**Programming:** SQL, Python, R, Bash, Scala, Linux, PySpark

**Cloud:** GCP, Azure, AWS, Snowflake, Devops, Salesforce

**Developer Tools:** Tableau, PowerBI, Docker, Kubernetes, Git, Apache Spark, Databricks, Redshift, Hive, Airflow

**Python and Machine Learning Libraries:** NumPy, Pandas, Matplotlib, Seaborn, SciPy, TensorFlow, PyTorch, Keras, Scikit-learn, NLTK, OpenCV, PyTorch, Spark MLlib

**Microsoft Office Suite:** Excel, Power BI, PowerPoint, Word, Outlook, Access, Office Software

# EXPERIENCE

**Data Scientist Intern, Sam’s Club Walmart Inc.,** Bentonville, AR **June 2024 - August 2024**

* Analyzed credit cardholder impact, revealing a 20% higher renewal rate and 16% higher lifetime value, reinforcing membership retention strategies.
* Created real-time dashboards with SQL, PySpark and Tableau to track acquisitions, churn, and key membership metrics over a rolling 12-month period.
* Identified early churn indicators, discovering 50% of churn occurs within 100 days of credit card churn, enabling targeted retention efforts.

**Data Engineer, Modak Analytics**, Hyderabad, India **July 2021 - July 2023**

* Designed and maintained 150+ CI/CD pipelines for clinical trial data, ensuring data integrity, masking and analysis for a Fortune 500 client.

# Optimized big data pipelines using StreamSets, Hadoop and Kafka, reducing data processing time by 30% and enhancing cloud efficiency.

# PROJECTS

**MetroPT Anomaly Detection December 2024**

* Developed a real-time anomaly detection model using K-Means clustering and LSTM Autoencoders, reducing downtime by 20% and improving predictive maintenance.
* Processed 1.5M+ sensor records to identify critical failure patterns in pressure, temperature, and motor current, optimizing metro train Auxiliary Power Unit (APU) reliability.

**Optimizing Electricity Demand for eSC December 2023**

* Built a predictive energy consumption model (Linear Regression, Random Forest, XGBoost) achieving R² = 0.78, optimizing energy planning.
* Forecasted a 31.53% increase in demand under extreme weather conditions, assisting eSC in mitigating blackout risks.

**EqualEyes: Advancing Image Captioning May 2024**

* Engineered an image caption generator (BLEU 0.72) using ViT-GPT2 and BLIP, trained on 118K+ COCO images with 1.5M objects, reducing loss to 0.0062.
* Developed and launched an innovative web application featuring audio extensions specifically designed for visually impaired users; integrated advanced object segmentation and NLP technologies, enhancing user accessibility

**LEADERSHIP EXPERIENCE**

**Lead Graduate Teaching Assistant,** Introduction to Networks and Cloud **December 2024**

Leading lab sessions for 75+ students, developing lab materials and instructing hands-on exercises in cloud and networking technologies to ensure successful lab completion.