

# RAAGA SINDHU MANGALAGIRI

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## EXPERIENCE

### Northeastern University – Boston, MA

Jan 2024 - Aug 2024

#### Machine Learning Co-op (NASA - Funded Project)

- Engineered the CoreLogic tax record processing pipeline, implementing end-to-end ETL processes using Python and Dask to prepare data for machine learning models, achieving a 35% improvement in scalability
- Optimized data operations for loading, preprocessing, and cleaning using advanced parallelization with Dask, ensuring efficient preparation of high-quality training datasets and reducing processing time by 85%
- Designed and implemented metrics to monitor anomalies and potential fraud patterns in large datasets, improving detection accuracy by 15%
- Analyzed geospatial data to study housing disparities and services access, delivering actionable insights for resource allocation for 52 municipalities

### Northeastern University – Boston, MA

Sep 2023 – Dec 2023

#### Graduate Teaching Assistant – Computation and Visualization

- Conducted interactive sessions and provided personalized support to over 100 students, collaborating with faculty to develop course materials, boosting student engagement and project comprehension by 20%

### Tata Consultancy Services – Nagpur, India

Jul 2021 - Aug 2022

#### Data Analyst

- Streamlined processes for Metso, a global leader in industrial solutions, by automating Salesforce processes, reducing manual tasks by 30% and ensuring data accuracy across teams
- Engineered seamless Salesforce-JIRA integrations, improving operational efficiency and enabling real-time updates for demand planning and resource management reducing delays from 48 hours to under 12 hours
- Collaborated with Metso's internal stakeholders to design systems and develop KPI dashboards, ensuring data-driven decision-making in supply chain optimization and performance tracking
- Partnered with cross-functional teams using Agile methodologies to enhance efficiency and deliver scalable solutions, completing project milestones 15% ahead of schedule and aligning with strategic goals

## PROJECTS

### Telecom Device Upgrade Prediction – Python, GCP, Airflow, Looker | [Link](#)

- Developed and deployed scalable workflows for data preprocessing and model training using GCS, Airflow DAGs, and Vertex AI AutoML, automating real-time predictions with SQL logic
- Enhanced feature selection and model configurations using multivariate A/B testing, boosting predictive accuracy by 10%

### Breast Cancer - Python (Pandas, NumPy, Logistic Regression) | SQL | MS Excel | [Link](#)

- Implemented logistic regression on the UCI datasets with Python and SQL, achieving a 95% accuracy for early detection and improved planning

### 311 NYC Data Analysis - Google Big Query| Python| Tableau prep & Tableau | [Link](#)

- Processed 14 million NYC service requests with Python and Tableau, creating a dashboard to optimize city resources and enhance complaint resolution

## EDUCATION

### Northeastern University, College of Engineering - Boston, MA

Dec 2024

#### Master of Science in Data Analytics Engineering

Relevant Coursework – Machine Learning Operations, Foundation in Data Analytics, Statistical Learning, Computation and Visualization

### Sreenidhi Institute of Science and Technology - Hyderabad, India

Jul 2021

#### Bachelor of Science in Electronics and Computer Engineering

Relevant Coursework – Statistical Learning, Big Data Analytics, Machine Learning, Network Analysis

## TECHINICAL SKILLS

Programming & Libraries	-	Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Plotly), MySQL, R
Data Engineering	-	Dask, Airflow DAGs, MLflow
Cloud Platforms	-	Google Big Query, GCP, Docker, AWS -EC2, S3
Data Visualization	-	Tableau, Power BI, Looker, Flourish
Tools & Collaboration	-	Salesforce, JIRA, GitHub, Excel
Methodologies	-	Agile, Lean Six Sigma, Data-Driven Decision making