

# SUDHA DUVURU

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## EDUCATION

### NORTHEASTERN UNIVERSITY

Boston, MA

*Master of Professional Studies in Data Analytics with Honors; Major in Statistical Management*

Apr 2025

- Coursework: Advanced Data Visualization, Predictive Analytics, Machine Learning, Big Data Technologies, Business Intelligence Systems
- Cumulative GPA: 3.5/4.0
- Northeastern Data Analyst Club (Board Member), Consulting Club (Engagement Manager)

## EXPERIENCE

### NORTHEASTERN UNIVERSITY-CPS PROJECTS

Boston, MA

*Data Analyst (Academic projects)*

Aug 2023 – May 2025

- Engineered a CNN+LSTM disease prediction model (92% accuracy) and a real-time trading engine (21% simulated portfolio gain)-showcasing advanced AI/ML and NLP expertise.
- Designed drone delivery reinforcement models (28% faster simulated routes) to a global climate risk dashboard integrating satellite, disaster, and sentiment data across 30+ countries.
- Delivered executive-ready dashboards linking technical models to business outcomes, enabling data-driven decisions in healthcare, finance, and sustainability.
- Collaborated with cross-functional teams to deploy analytics pipelines on cloud platforms (Azure & Databricks), ensuring scalable, production-ready solutions aligned with real-world business use cases.

### ADP PVT LTD.

Hyderabad, IND

*Associate Analyst, Federal Tax team*

July 2022 – Aug 2023

- Spearheaded compliance for 1,000+client accounts (IRS forms 940, 941, and 944), resolving discrepancies, reduce penalties and Streamlining tax reporting (+20% efficiency).
- Managed and scaled a cross-functional team of 10 across 3 cities; Co-launched Pune office, driving 200% revenue growth in 6 months.
- Reduced new hire onboarding time by 50% through training/mentoring programs; promoted to auditor & SME within 8 months for strong performance.
- Partnered with business, data science, and operations to improve reporting workflows, boosting data accuracy and timelines.

### OSMANIYA UNIVERSITY

Hyderabad, IND

*Undergraduate Research and Industry Projects*

June 2019 – July 2022

- Applied Portfolio theory and risk-return analytics to design an equity portfolio optimization model, outperforming the benchmark index by 12% in live market simulations.
- Conducted consumer behavior analysis on 500+ survey responses, leveraging Statical modeling and data visualization to recommend pricing strategies that boosted pilot store sales by 18%.

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Hyderabad, IND

*Business/Operations Analyst*

May 2014– June 2019

- Analyzed service and repair data to identify recurring machine issues, Optimizing Processes and reducing repeat service calls by 15%.
- Built Excel dashboards to track technician Productivity, Spare parts usage, and revenue, enabling data-driven decisions that improved customer retention by 20%.

## ADDITIONAL

**Programming & Data:** SQL, Python (pandas, Scikit-learn, NumPy, matplotlib), R, Kusto

**BI & Visualization:** Power BI (Desktop, Service, Gateway, Fabric, Advanced DAX, RLS/CLS, Gateway), MicroStrategy (Architect, Command Manager, Visual Insight), Tableau, Excel (Advanced)

**ETL & Data Engineering:** Azure Data Factory, Databricks, Informatica, SSIS, ETL/Data Cleaning

**Databases:** Azure SQL Server, Oracle, PostgreSQL, Teradata, Snowflake

**Cloud & Big Data:** Microsoft Azure, AWS, GCP, Databricks, Redshift, BigQuery

**Machine Learning:** Predictive Modelling, Regression, Classification, Clustering, Time Series Forecasting

**Other Tools:** Jira, ServiceNow, SharePoint, Salesforce CRM, SAP