

Duttresh Sapra

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EDUCATION

Master of Science, Business Analytics & Artificial Intelligence , <i>The University of Texas at Dallas</i>	May 2026
Coursework: <i>Predictive Analytics, Advanced Statistics, Time Series Forecasting</i>	
Bachelor of Technology, Information Technology , <i>Birla Vishvakarma Mahavidyalaya</i>	May 2024
Coursework: <i>Database Management Systems, Programming for Python, Machine Learning</i>	

SKILLS & CERTIFICATIONS

Technical Skills	Python, R, SQL, Pandas, NumPy, Matplotlib, Seaborn, TensorFlow, PyTorch, Scikit learn
Core Skills	Data Analysis, Feature Engineering, Regression, Classification, Clustering, Time Series Forecasting, Statistical Modelling, Hypothesis Testing, Data Storytelling, EDA, Model Evaluation, Problem Solving
Tools & Platforms	Power BI, Tableau, RStudio, MySQL, AWS, Microsoft Excel, Microsoft Office, Git, VS Code, Notion
Certificates	Tableau Business Intelligence Analyst Professional Certificate, IBM Data Analyst Professional Certificate, IBM Machine Learning Certificate

PROFESSIONAL EXPERIENCE

Data Scientist , <i>Indian Space Research Organization</i>	January 2024 - April 2024
<ul style="list-style-type: none">Reduced satellite data analysis time by 70% by leading a 3-member team to develop a predictive analytics system using Python on Jupyter notebookConducted anomaly detection on 100+ GB of telemetry data by applying statistical outlier analysis to improve model accuracy and reliability using Pandas and NumPyDeveloped an automated pipeline to export analysis visuals and reports to Excel/PowerPoint, increasing reusability by 50%.	
Data Analyst , <i>MedTourEasy Pvt. Ltd</i>	June 2023 - September 2023
<ul style="list-style-type: none">Boosted decision-making efficiency by 75% by analyzing 1M+ patient records to identify trends in treatment costs, care quality, and operational efficiencyReduced manual reporting time by 50% through developing a Power BI dashboard integrated with SQL-based data pipelines for real-time operational reportingEnabled data-driven strategies by collaborating with cross-functional teams to translate insights into actionable business decisions	

ACADEMIC PROJECTS

Credit Default Prediction	March 2025 - May 2025
<ul style="list-style-type: none">Sampled 20% of 5.5 million row dataset and engineered 200+ features using monthly averages, sum, and response rate from 13 months of historical dataReduced features by running two different XGBoost models and keeping features with importance greater than 0.5% to reduce noise and improve model interpretabilityOptimized 100+ models using Grid Search across XGBoost and Neural Network architectures to find the best model based on bias and variance scores from training and two test setsDelivered insights through stakeholder presentations outlining credit approval strategies and 12-month revenue forecasts	
Sales Dashboard for Adventure Cycles	May 2024 - August 2024
<ul style="list-style-type: none">Designed interactive Power BI dashboard to track sales revenue, customer trends, and business performanceUtilized DAX functions, Treemaps, Map visualization, Filter Slider, Indicators, Pie chart, Line chart and Bar chart to uncover trends and inform business growth strategiesEnabled data driven decision-making for business growth by providing predictive analysis on \$24M+ sales data	

LEADERSHIP EXPERIENCE

Machine Learning Club , <i>Birla Vishvakarma Mahavidyalaya</i>	January 2023 - December 2023
<ul style="list-style-type: none">Mentored 50+ students and led ML workshops, fostering collaborative learning and technical upskilling	