

ARCHIT DILIP DUKHANDE

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EDUCATION

Syracuse University, Syracuse, NY

August 2023 - May 2025

Master of Science, Major in Applied Data Science | GPA: 3.85

University of Mumbai, INDIA

August 2019 - June 2023

Bachelor of Engineering, Major in Electronics & Telecommunication

TECHNICAL SKILLS

Programming Languages: Python, SQL, R

Data Analysis & Visualization: Tableau, Power BI, Advanced MS Excel (PivotTables, Power Query, Power Pivot), Matplotlib, Seaborn, Shiny, Pandas, NumPy, SciPy

Machine Learning & AI: TensorFlow, Keras, XGBoost, LightGBM, SVM, Random Forest, KNN, scikit-learn,

Statistical Analysis: Hypothesis Testing, Confidence Intervals, Time Series Analysis, Regression, Forecasting, ANOVA

Database Technologies: Microsoft SQL Server, Microsoft Access

Development Environments: Google Colab, GitHub Codespaces, Jupyter Notebook

Productivity Software: Microsoft PowerPoint, Microsoft Word

EXPERIENCE

Data Analyst | iConsult Collaborative - Syracuse University | Syracuse, NY

August 2024 - Present

- Automated ETL pipelines using Python, reducing data processing time by **60%** and improving workflow efficiency.
- Managed data migration using Excel for cleaning, mapping, and transforming datasets while ensuring data accuracy.
- Built client-specific dashboards in Power BI and Tableau, improving data visualization and decision-making.

Data Curator Intern | Syracuse University CASE - SIDEARM Sports | Syracuse, NY

May 2024 - August 2024

- Streamlined data migration workflows, improving integration timelines by **30%** and ensuring accurate, timely data updates.
- Resolved data discrepancies for **30** clients, boosting data accuracy and increasing reporting reliability by **95%**.
- Ensured data consistency across systems, reducing client onboarding time by **25%** and enhancing synchronization.

Digital Data Analysis & Marketing Intern | Alter Ego Learning | Remote

June 2020 - July 2020

- Optimized SEO strategies, driving a **30%** increase in brand visibility and user engagement.
- Led a team of **10** interns to successfully plan and execute a flagship digital marketing project.
- Monitored and optimized social media content, improving campaign performance and expanding audience reach.

TECHNICAL PROJECTS

Clinical Trial Analysis and Predictive Modeling | [GitHub](#)

- Forecasted clinical trial outcomes using XGBoost and Random Forest, achieving **86%** accuracy and **87%** AUC to assist stakeholders in evaluating trial success.
- Examined phase distributions and enrollment trends using Pandas and Matplotlib to provide actionable insights into clinical research efficiency.
- Enhanced data integrity and visualization using Seaborn to showcase success rates and support data-driven decision-making.

Dynamic Flight Fare Prediction and Customer Insights | [GitHub](#)

- Estimated dynamic flight fares using XGBoost, Random Forest, and Gradient Boosting, achieving **95.5%** R² and **98.8%** AUC for price optimization.
- Conducted data preprocessing and feature engineering using Pandas and NumPy to uncover pricing patterns and customer behaviors.
- Visualized fare trends and insights using Matplotlib and Seaborn, enabling stakeholders to make informed pricing decisions.

Cyber Attack Prediction and Defense Optimization with Machine Learning | [GitHub](#)

- Anticipated cybersecurity threats using XGBoost with **87%** accuracy and **92%** AUC, enabling proactive defense measures.
- Processed and optimized security datasets using Python, handling class imbalances and missing values for improved model performance.
- Built an interactive Power BI dashboard to monitor cybersecurity metrics and visualize real-time attack patterns.

Energy Demand Forecasting and Sustainable Solutions | [GitHub](#)

- Forecasted energy demand using Linear Regression, SVM, and XGBoost, achieving **85.7%** R² to support energy consumption optimization.
- Evaluated **4.2M** energy, weather, and housing records using R and Pandas to identify key drivers of peak demand.
- Developed a Shiny app with interactive maps to visualize energy usage and recommend sustainable solutions.

LEADERSHIP AND ACHIEVEMENTS

- Smart India Hackathon Finalist** - Recognized for innovative solutions and effective teamwork at the national level.
- Most Dynamic Intern** - Awarded during an internship at Alter Ego Learning for outstanding performance and initiative.
- Academic Excellence** - Subject topper in ECC108019 and ranked **#3** at the department level during Bachelor's based on CGPA.