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 | CGPA: 9.5/10

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
Cloud Platforms: Microsoft Azure, Amazon Web Services (AWS)
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

EXPERIENCE

Data Analyst | *iConsult Collaborative - Syracuse University* **| Syracuse, NY** **August 2024 - Present**
- Identified and mapped relevant fields, KPIs, and metrics for data migration based on stakeholder requirements.
- Designed and automated ETL pipelines using Python, resulting in a **60% improvement** in processing speed.
- Streamlined workflows by organizing large datasets and improving data readiness for analysis.
- Built custom dashboards in Power BI and Tableau for analysis and strategic decision-making.

Data Curator | *Syracuse University CASE - SIDEARM Sports* **| Syracuse, NY** **May 2024 - August 2024**
- Managed data migration for **20 clients**, improving consistency and accelerating integration timelines.
- Investigated and resolved discrepancies using Excel, boosting data integrity to over **90% accuracy**.
- Participated in QA testing and coordinated with technical teams to validate imported datasets.
- Minimized onboarding delays by **25%** through proactive error resolution and process improvements.

Digital Data Analysis & Marketing Intern | *Alter Ego Learning* **| Remote** **June 2020 - July 2020**
- Analyzed market trends and user engagement data to inform content and SEO strategies.
- Enhanced digital visibility by **30%** through targeted keyword research and implementation.
- Led a team of **10 interns** in executing a nationwide digital marketing campaign.
- Coordinated logistics and marketing for corporate training programs, increasing outreach and engagement.

TECHNICAL PROJECTS

Clinical Trial Analysis and Predictive Modeling | GitHub
- Predicted clinical trial outcomes using XGBoost and Random Forest, achieving **86%** accuracy and **87%** AUC.
- Analyzed phase distributions and enrollment trends using Pandas and Matplotlib to extract meaningful insights.
- Visualized outcome patterns with Seaborn to support data interpretation and result communication.

Dynamic Flight Fare Prediction and Customer Insights | GitHub
- Modeled dynamic flight pricing using XGBoost, Random Forest, and Gradient Boosting, reaching **95.5%** R² and **98.8% AUC**.
- Engineered features with Pandas and NumPy to uncover pricing patterns and customer behavior.
- Explored fare trends and insights using Matplotlib and Seaborn to support pricing analysis and model evaluation.

Cyber Attack Prediction and Defense Optimization with Machine Learning | GitHub
- Performed EDA using Python on a public cybersecurity dataset to identify anomalies and threat patterns.
- Built and tuned an XGBoost model on imbalanced network traffic data, achieving **87%** accuracy and **92%** AUC.
- Created an interactive Power BI dashboard to visualize key attack metrics and track potential threats in real time.

Energy Demand Forecasting and Sustainable Solutions | GitHub
- Forecasted energy demand using Linear Regression, SVM, and XGBoost, attaining **85.7% R²**.
- Evaluated **4.2M** energy, weather, and housing records using R to identify key drivers of peak demand.
- Built a Shiny web application to visualize energy usage and recommend sustainable actions.

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 ECCI08019 and ranked **#3** at the department level during Bachelor's based on CGPA.