ARCHIT DILIP DUKHANDE

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SUMMARY

MS in Applied Data Science graduate skilled in turning data into actionable insights. Hands-on experience in machine learning, Python, SQL, and data visualization. Focused on solving real-world business problems through scalable, data-driven solutions.

EDUCATION

Syracuse University, Syracuse, NY **August 2023 - May 2025**
Master of Science, Major in Applied Data Science | GPA: 3.879/4

University of Mumbai, INDIA **August 2019 - June 2023**
Bachelor of Engineering, Major in Electronics & Telecommunication | CGPA: 9.5/10

TECHNICAL SKILLS

Programming Languages: Python (NumPy, Pandas, Matplotlib), SQL, R
Data Analysis & Visualization: Tableau, Power BI, Advanced MS Excel (VLOOKUP, PivotTables, Power Query)
Machine Learning & AI: A/B Testing, TensorFlow, Keras, XGBoost, SVM, Random Forest, KNN, scikit-learn
Natural Language Processing: NLTK, spaCy, Regex, BeautifulSoup, Text Preprocessing, Keyword Extraction, Tokenization
Cloud Platforms: Microsoft Azure, Amazon Web Services (AWS)
Statistical Analysis: Hypothesis Testing, Confidence Intervals, Time Series Analysis, Regression, Forecasting, ARIMA
Database Technologies: Microsoft SQL Server, Microsoft Access
Development Environments: Google Colab, GitHub Codespaces, Jupyter Notebook

EXPERIENCE

Data Analyst | *iConsult Collaborative - Syracuse University* | Syracuse, NY **September 2024 - May 2025**

- Identified and mapped relevant fields, KPIs, and metrics for data migration based on stakeholder requirements.
- Extracted data using SQL and used Python to automate and refine ETL pipelines, boosting processing speed by **60%**.
- Streamlined workflows by organizing large datasets and improving data readiness for analysis.
- Built Power BI and Tableau dashboards based on client needs to support analysis, strategy, and decision-making.

Data Curator | *Syracuse University CASE - SIDEARM Sports* | Syracuse, NY **May 2024 - August 2024**

- Managed website data migration for **20** clients, improving consistency and accelerating integration timelines.
- Contributed to A/B testing of layout and content options post-migration to enhance user experience.
- Cleaned and standardized migrated content using Excel, improving data accuracy to over 90%.
- Collaborated with QA and technical teams to validate site functionality and reduce onboarding delays by 25%.

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

Dynamic Flight Fare Prediction and Customer Insights | GitHub

- Modeled dynamic flight pricing using XGBoost, Random Forest, and Gradient Boosting, reaching **95.5%** R^2 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.

Remote Data/ML Job Trends Analysis | GitHub

- Collected remote job data from Remotive API and Hacker News to analyze trends in Data/ML roles from 2020–2024.
- Used Python and NLP to clean job titles, extract top skills, and track demand over time.
- Visualized job trends and skill patterns to highlight shifts in remote hiring across platforms.

Energy Demand Forecasting and Sustainable Solutions | GitHub

- Forecasted energy demand using Linear Regression, SVM, and XGBoost, attaining **85.7% R^2**.
- 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.