

# Akhilesh Dongre

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## Education

**Northeastern University**, Boston, MA, USA | Master of Science in Information Systems | GPA: 3.78/ 4 **Sep 2022 - May 2024**  
**VIT University**, Vellore, India | Bachelor of Technology, Electronics & Communication | GPA: 8.81 / 10 **Jul 2016 - Jun 2020**

## Work Experience

Summer Associate - Data Scientist | **Navy Federal Credit Union**, Vienna, VA **May 2023 - Aug 2023**

- Collaborated with the Lending Analytics, Quantitative Modelling team to develop Tableau dashboards, analyzing **Consumer Lending and Credit Card Portfolio models** for NFCU's Capital plan stress testing
- Presented comprehensive insights to **the executive management and CEO** of Navy Federal for Capital Plan stress testing
- Delivered data-driven insights influencing over **50% of revenue** from loan originations, facilitating informed decision making
- Optimized Education Lending Models by streamlining matrix models and revising loss rates using **Pyspark, Python and SQL**

Sr. Data Analyst | **Tiger Analytics**, Chennai, India **Jul 2020 - Aug 2022**

- Implemented supervised machine learning in **Python** to create a price optimization tool for Consumer Products Goods ( C.P.G.) during promotional periods for **170 products**
- Applied statistical models, including linear mixed effects regression and Bayesian hierarchical modeling on Azure Databricks utilizing **Pyspark, Python** leading to a **1% sales increase** in the pet care segment; mentored interns during the process
- Conducted Exploratory Data Analysis to determine correlations between key performance indicators and data accuracy, and deployed a **Python** simulator for web tool backend, forecasting a **30% reduction** in volume for a seasonal pack optimization

Data Analyst | **Tiger Analytics**, Chennai, India **Jan 2020 - Jul 2020**

- Created **Python** and R models for identifying high-opportunity food categories using sales data from Google, Amazon
- Designed and implemented data quality control checks to assess data integration

## Projects & Leadership

**IMDB Movies Analysis Using Talend (ER Studio, Alteryx, SQL Server, MySQL, Azure Data Studio, PowerBI)** **Sep 2023 - Dec 2023**

- Integrated data from **MySQL, TSV, and JSON files** for comprehensive consolidation, ensuring a unified dataset
- Leveraged Alteryx, **Python** for in-depth data profiling, generating detailed reports and insights
- Developed a robust SCD Type 2 Movie Titles Dimension table, enhancing data accuracy and enabling historical tracking
- Implemented **ETL mappings in Talend** with metadata-based connections, streamlining workflows and created dynamic dashboards in **Power BI, Tableau** for effective communication of key metrics and trends

**Disease classification using Multi-GPU on NIH Chest X-Rays (Python, PyTorch, Cuda)** **Sep 2023 - Dec 2023**

- Implemented a method for classifying 14 Chest diseases present in an x-ray image using **deep learning with CNNs**
- Trained and accelerated by deploying the models across multiple GPU devices in parallel using parallel computing clusters
- Analyzed speedup and accuracy by training models across 1,2, and 4 GPUs with varying batch sizes and epochs to compute model performance using parallel computing

**Teaching Assistant, Advanced Data Sciences & Architecture (Python, LLM, Streamlit, Huggingface)** **Sep 2023 - Dec 2023**

- Led project-based learning for 50 students in advanced data science techniques across finance, healthcare, and marketing
- Guided **NER training** using Language Models for improved entity recognition using **Python**
- Expertise in interpreting fixed-income, equity, and multi-asset index analytics for stocks, Collaborated with financial experts on derivatives risk management solution involving P&L decomposition

**Los Angeles Crime Reports, Designing Data Architectures for Microsoft BI (Azure Data Factory)** **Sep 2023 - Dec 2023**

- Created visualizations in Power BI and Tableau for LA Crime Reports, providing intuitive insights for informed decision making
- Managed complex data pipelines with **Talend, Python, and Alteryx**, optimizing processes and achieving a 25% reduction in data profiling time through cross-functional collaboration
- Utilized Cloud platforms (**AWS, Azure**) to enhance overall project efficiency by optimizing data processes
- Snowflake data warehousing and Power BI data visualization

## Technical Skills

<b>Programming Languages:</b>	<b>Python</b> , SQL, T-SQL, PL/SQL, Java, C++
<b>Data Integration and BI Tools:</b>	Talend Data Integration, XSV, Snowflake, Alteryx Elasticsearch, Kibana, Trifacta, Tableau Azure ML Studio, Hadoop, SSIS, PySpark, MS PowerBI , Salesforce Einstein Analytics, MS Office, Teradata, Excel (Pivot vLookup), DBT, Apache Kafka, Spark
<b>Machine Learning Frameworks:</b>	NumPy, Pandas, Scikit-Learn, PyTorch, Tensorflow, Keras, Matplotlib, Seaborn, Jupyter