

Akhilesh Dongre

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Education

Master of Science, Information Systems

Northeastern University, Boston, MA | GPA: 3.84 / 4

Expected May 2024

- Relevant Coursework: Machine Learning, Data Science Methods and Tools, Advance Data Science

Bachelor of Technology, Electronics & Communication

Vellore Institute of Technology, Vellore, India | GPA: 8.81 / 10

Jun 2020

Work Experience

Summer Associate - Data Analyst | Navy Federal Credit Union, Vienna, VA

May 2023 - Aug 2023

- Created Tableau dashboards with the Lending Analytics team to analyze Consumer Lending and Credit Card Portfolio models, ensuring NFCU's capital adequacy for Capital Plan stress testing
- Provided data-driven insights that directly impacted over **50% of revenue** generated from loan originations, enabling informed decision-making by NFCU management
- Optimized matrix models and revised loss rates for Education Lending Models, enhancing risk assessment and lending strategies
- Collaborated in an Agile environment to streamline processes to enhance project efficiency

Senior Data Analyst | Tiger Analytics, Chennai, India

Jul 2020 - Aug 2022

- Implemented supervised machine learning techniques to develop a **price optimization** tool in python for products in promotional periods for a leader in the Consumer Products Goods (C.P.G.) domain
- Applied linear mixed effects regression and Bayesian hierarchical modeling methods to increase sales of company by **1% in pet care segment** on Azure, mentored interns for demonstration
- Performed Exploratory Data Analysis on multiple data sources to determine correlation between key performance indicators and accuracy of sources
- Deployed a python simulator for web tool backend to load API request from user and generate results using model coefficients for mix of items to be optimized for a seasonal pack, Forecasted **30% reduction** in volume

Data Analyst | Tiger Analytics, Chennai, India

Jan 2020 - Jul 2020

- Built python and R models to identify food categories with high business opportunity based on sales data collected across different platforms as google, amazon and social media posts
- Proposed methods and resolved conflicts within group to improve positioning of brands across different food categories and provided controllable factors that clients can leverage to boost sales

Projects & Leadership

Teaching Assistant, Advanced Data Sciences & Architecture

Sep 2023 - Present

- Led and facilitated project-based learning initiatives, empowering 50 students to understand advanced data science techniques to real-world projects across diverse domains, including finance, healthcare, and marketing
- Guided students through Named Entity Recognition (NER) training using Language Models (LLM), enabling a deeper understanding of how these models enhance entity recognition tasks.
- Demonstrated the leverage of SciBERT and BioBERT, specialized models catered to scientific and biomedical domains, showcasing their efficacy in enhancing NER accuracy and relevance within these specialized contexts

Data Engineer - Los Angeles Crime Reports, Designing Data Architectures for BI

Sep 2023 - Present

- Created comprehensive visualizations using Power BI and Tableau, offering intuitive insights into LA Crime Reports trends and patterns, aiding stakeholders in making informed decisions
- Designed and managed complex data pipelines utilizing Talend for orchestration, Python for custom transformations, and Alteryx for streamlining data profiling processes
- Utilized Cloud platforms (AWS, Azure) to optimize data processes and improve overall project efficiency
- Worked cross-functionally with teams to optimize data processes, combining Talend, Alteryx, and Python capabilities to streamline data profiling tasks, resulting in a **25% reduction** in profiling time

Technical Skills

Programming Languages: Python, SQL, R-Studio, C++, Java, MATLAB, XML, JSON

Visualization Tools: Tableau, Power BI, SSRS

Big Data & Cloud Services: AWS, Databricks, Snowflake, Azure ML Studio, Hadoop, SSIS, PySpark, Google Analytics

Other Tools & Libraries: Scikit-learn, Keras, Pytorch, Pandas