

EDUCATION

Northeastern University, Boston, MA

Candidate for Master of Science in Data Analytics Engineering

Coursework: Data Mining in Engineering, Data Management for Analytics, Computation and Visualization, Foundations of Data Analytics, Story Telling with Data, Natural Language Processing, Neural Networks and Deep Learning, Operations Research.

Jun 2025

GPA: 3.67

Vellore Institute of Technology, India

Bachelor of Technology in Computer Science and Engineering

Coursework: Data Warehousing and Data Mining, Database Management System, Probability and Statistics, Problem Solving using Java.

May 2023

GPA: 3.5

SKILLS & CERTIFICATIONS

Languages & Technologies: Python, R, SQL, Java, AMPL, Mongo DB, Git.

Analytics & ML: NumPy, Pandas, TensorFlow, Scikit-learn, Keras, Jira, ETL.

Visualization Tools: Tableau, Flourish, Power Bi, Matplotlib

Software: MS Office 360(Excel, Word, PowerPoint, Outlook, Publisher), MATLAB, Cloud (AWS, Google Cloud, Azure), Agile

Processing & Analytics: Geospatial Analysis, Business Intelligence, Financial Analytics & Problem Solving, Data pipelines, ETL.

Certifications: Goldman Sachs: Operations, JPMorgan Chase & Co. - Quantitative Research, McKinsey Forward

PROFESSIONAL EXPERIENCE

New England Investment Consulting Group LLC

Quantitative Research Intern

Jan 2025 – May 2025

Boston, MA

- Developing and implementing algorithmic trading strategies to enhance returns and minimize market risks.
- Training large language models (LLMs) & curating specialized financial datasets to enhance model performance.
- Continuously explore & refine quantitative models to improve trading and investment strategies, keeping abreast of market trends.
- Collaborating with the risk management team to identify and mitigate financial risks in quantitative strategies.

Code Facts Pvt Ltd

Data Analyst

Sep 2022 - Aug 2023

India

- Conducted in-depth analysis of large datasets using Python to uncover key trends and relationships.
- Developed skills in data visualization and dashboard creation for effective communication of insights.
- Utilized Python, R, SQL, and VBA for advanced data analysis, statistical modeling, and manipulation, leading to a 20% improvement in accuracy and reducing decision-making time by 30%.

Indo Euro Synchronizatio

Data Science Intern, with Hochschule Kempten University of Applied Sciences

Mar 2022 - Aug 2022

Germany

- Synthesized complex datasets, revealing key trends & patterns through statistical methods in Python and R.
- Created compelling visualizations with Matplotlib, Seaborn, and ggplot2, driving data-informed decisions.

PROJECTS

Deep Learning Model for Land Use

Oct 2024

Northeastern University, Boston, MA

- Conducting advanced analysis of satellite imagery with deep learning techniques to classify land use patterns, leveraging Python for data processing and model training.
- Gaining expertise in neural networks, image processing, and large-scale data management, enhancing analytical proficiency.
- Working towards a 50% reduction in manual classification time to support faster data-driven decisions and improve resource allocation.

Urban Spatial Order: Street Network Clustering Analysis

Nov 2023

Northeastern University, Boston, MA

- Conducted preprocessing and normalization of global urban spatial datasets to enable effective clustering analysis, utilizing Python for data scaling and transformation.
- Applied advanced clustering techniques, including K-means and hierarchical methods, to categorize cities based on street network configurations, employing the elbow method for optimal cluster determination.
- Gained insights into urban design variations by analyzing patterns in street orientation and configurations, thereby enhancing understanding of urban planning across different regions.
- Visualized and presented clustering results through dendrograms, facilitating clear communication of complex urban data patterns, which supports more informed urban development strategies and strategic planning.

Accelerometer-Based Alcohol Consumption Detection

April 2024

Northeastern University, Boston, MA

- Used accelerometer data to detect instances of heavy drinking, achieving a data integration success rate of over 95% by merging accelerometer readings with transdermal alcohol content (TAC) across multiple data formats.
- Engineered data preprocessing workflows that enhanced the dataset quality by 80%, enabling more reliable pattern recognition and analysis of motion data for health interventions.
- Implemented advanced machine learning algorithms, focusing on permutation entropy and complexity methods, which improved the detection accuracy of heavy drinking episodes by 30% compared to traditional methods.