

## 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.

**Dec 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

Program & Analytics: Python, SQL, R, 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*

**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 - Dec 2023**

*India*

- Conducted predictive **analytics and statistical modeling** using pandas and scikit-learn to solve workforce planning challenges, performing regression analysis that optimized resource allocation strategies.
- Developed machine learning-based **candidate scoring algorithms** to streamline recruitment inefficiencies, implementing weighted scoring models that achieved 35% improvement in placement success rates.
- Built interactive dashboards and data visualizations in **Tableau/Power BI** by integrating multiple data sources, creating self-service analytics tools that improved stakeholder data accessibility by 40%.

### Hochschule Kempten University of Applied Sciences

*Data Science Assistant*

**Jan 2022 - Aug 2022**

*Germany*

- Analyzed complex talent market trends using **SQL** and **Python**, providing insights, and identifying patterns for over 50 global clients, enhancing decision-making and increasing client satisfaction by 15%.
- Enhanced labor market forecasting by developing predictive models in **R** and implementing ML algorithms with **Python's scikit-learn**. Improved model accuracy by 20%, enabling data-driven workforce planning decisions.

## PROJECTS

### Deep Learning Model for Land Use

**Oct 2024**

*Northeastern University, Boston, MA*

- Analyzed satellite imagery with deep learning to classify land use, using Python for data processing and model training.
- Developed expertise in neural networks, image processing, and large-scale data management, boosting analytical capabilities.
- Achieved up to 50% reduction in manual classification time, accelerating data-driven decisions and optimizing 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 K-means and hierarchical clustering to categorize cities by street networks, using the elbow method for optimal clusters.
- Analyzed street orientation and configurations to uncover urban design variations, enhancing understanding of regional planning.
- Visualized clustering results with dendrograms to clearly convey complex urban patterns and support 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 preprocessing workflows that improved dataset quality by 80%, enabling reliable pattern recognition.
- Implemented ML algorithms using permutation entropy and complexity methods, improving heavy drinking episode detection by 30% over traditional approaches.