

Nitheesh Koushik Gattu

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Education

Northeastern University, Khoury College of Computer Science

Boston, MA

Master of Science in Data Science, GPA: 3.43

December 2023

Relevant Courses: Programming for Data Science, Algorithms, Supervised Machine Learning, Data Management and Processing, Unsupervised Machine Learning, Database Management Systems, Natural Language Processing

Jawaharlal Nehru Technological University, VNRVJIET

Hyderabad, IN

Bachelor of Technology in Civil Engineering, GPA: 8.03

June 2021

Relevant Courses: C Programming, Data Structures, Ordinary Differential Equations and Laplace Transformations

Technical Skills

Programming Languages:	Python, R, SQL, JavaScript, MATLAB, C
Databases:	MySQL, SQLite
Data Analysis:	Pandas and Numpy
Data Visualization:	Tableau, ggplot2, Matplotlib, Seaborn, Folium
Machine Learning:	Regression, Tree-based modeling, Neural Nets, Clustering, Recommendation Systems
Web Scraping:	Selenium, BeautifulSoup

Work Experience

Sales Analyst Intern

Spring 2023

Mimecast

- Collected data using web automation libraries like Selenium to increase an account's data quality.
- Collected about 150,000 data points that were directly imputed in the company's Salesforce and Demandbase database.
- Performed Chi² tests on the obtained data to make sure that the data collected is not different from manually collected.
- Used Google's Geocoding API to breakdown address information and to perform data validation.
- Used Tableau Server Client API and Simple Salesforce API for report generation to reduce manual errors and intervention.

Academic Projects

Aircraft Bird Strikes Database

Fall 2022

Database Management Systems, Northeastern University, Boston MA

- Created a MySQL database on the AWS Relational Database Service platform containing aircraft bird strike data.
- Performed ETL from the FAA published XML file and used to R to load the data to MySQL database.
- Analyzed data using SQL queries to find patterns and determine preventative measures to reduce bird strikes.

Building Machine Learning Models

Summer 2022

Unsupervised Machine Learning, Northeastern University, Boston MA

- Built own clustering algorithms (kNN, kMeans, soft kMeans, DBSCAN), dimensionality reduction algorithms (PCA, t-SNE, Haar feature reduction), text summarization (KL Divergence).
- Tested these algorithms and compared with the inbuilt Python libraries for performance optimization.

Boston Crime Data Analysis

Spring 2022

Introduction to Data Management and Processing, Northeastern University, Boston MA

- Visualized crimes in Boston to recognize geographical and seasonal patterns using Folium, GeoPy and Matplotlib.
- Used time-series analysis models such as ARMA, ARIMA, SARIMA and SARIMAX to predict the district-wise by month crime count and obtained a least Mean Absolute Percentage Error of 15.6%

Image Classification

Spring 2022

Supervised Machine Learning, Northeastern University, Boston MA

- Solved an Image classification problem by building Linear Regression, SVM, CNN and Random Forest models after preprocessing the data using Principal Component Analysis
- Built an ensemble model using the above models and achieved an accuracy of about 83%

Certifications

- Extract, Transform and Load (*CertNexus, Coursera*)
- Data Warehouse Concepts, Design, and Data Integration (*University of Colorado System, Coursera*)
- Distributed Computing with Spark SQL (*University of California, Davis, Coursera*)
- SQL for Data Science (*University of California, Davis, Coursera*)