

Rohit Barve

Boston, MA | +1 (617) 685 9745 | barve.r@northeastern.edu
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EDUCATION

Khoury College of Computer Sciences, Boston, MA

Candidate for Master of Science in Data Science

September 2021 – Present

Expected Graduation: December 2023

- **Coursework:** Supervised and Unsupervised Machine Learning, Data Management & Processing, Natural Language Processing, Deep Learning.

University of Pune, Pune, India

Bachelor of Engineering in Electronics & Telecommunications

August 2017 – May 2021

- **Coursework:** Data Structures & Algorithms, Object Oriented Programming, Artificial Intelligence.

SKILLS

Languages: Python, R, MATLAB, SQL, NoSQL

Libraries/Framework: Pandas, NumPy, Scikit-learn, NLTK, PyTorch, Flask, Apache Spark, dplyr

Data Visualization: Matplotlib, Seaborn, Plotly/Dash, PySimpleGUI, ggplot2, Tableau

Tools/Technologies: Jupyter Notebook, RStudio, MySQL, MongoDB, Microsoft Excel, Git

Machine Learning: EDA, Predictive Modelling, Natural Language Processing, Time-Series Forecasting, A/B testing, Recommendation Systems, Ensemble Methods

ACADEMIC PROJECTS

Cross-sell Prediction on Insurance Data

August 2022

- Developed a predictive model to identify health insurance clients that could be targeted for vehicle insurance with 100% success rate.
- Analyzed feature contributions towards the model to help identify crucial factors such as most effective marketing strategy and demographic of successful sale customers.

Text Summarization on Amazon Reviews

June 2022 - August 2022

- Implemented a text summarizer using deep learning models like Seq2Seq and pre-trained GPT-2 model.
- Measured model performance with rogue score and deployed the model on a PySimpleGUI desktop app.

Crop Recommendation Engine

May 2022

- Performed data analysis, outlier removal and explored influence of soil mineral and atmospheric factors to recommend optimal crop.
- Utilized machine learning models - Logistic Regression, Decision Trees and Random Forests to achieve an accuracy of 99.5% based on metrics like Cohen kappa score and Matthews correlation co-efficient.

Airline Reservation System

September 2021 – November 2021

- Designed and built a flight reservation system with a webapp running on Flask framework with a Python and MySQL back-end.
- Provided 3 login modes - admin, pilot and customers alongside enabling the admin to monitor key statistics on a interactive dashboard.

EXPERIENCE

Graduate Teaching Assistant

January 2022 – May 2022

Khoury College of Computer Sciences, Boston, MA

- Assisted Prof. Kylie Bemis for the course DS5110: Introduction to Data Management and Processing.
- Responsibilities included evaluating and grading assignments, providing support to students and conducting office hours.