

# Shreya Singh

Boston | 617 602 6551 | [singh.shreya1@northeastern.edu](mailto:singh.shreya1@northeastern.edu) | Available: Jan 2022 onwards  
[linkedin.com/in/shreya-singh/](https://www.linkedin.com/in/shreya-singh/) | [shreya-singh-tech.github.io](https://github.com/shreya-singh-tech) | [github.com/shreya-singh-tech](https://github.com/shreya-singh-tech)

## EDUCATION

### Northeastern University, Khoury College of Computer Sciences

*Candidate for Master of Science in Computer Science*

**Relevant Courses:** Algorithms, Natural Language Processing

Boston, MA

Dec 2022

**GPA: 3.8/4**

### Jalpaiguri Government Engineering College

*Bachelor of Technology in Information Technology*

**Relevant Courses:** Artificial Intelligence, Data Mining, Databases, Data Structures, Calculus, Probability and Statistics.

WB, India

June 2018

**GPA: 8.35/10**

## TECHNICAL SKILLS

**Programming Languages:** Python, C++, Java, SQL, R | **Databases:** SQLite, MongoDB, Neo4j | **Frameworks:** Scikit-learn, Numpy, Pandas, NLTK, Matplotlib, Spacy, PyTorch, Tensorflow, Git, Flask, Apache Spark & Hadoop, KNIME | **Others:** PowerBI, MS-Excel

**Certifications:** Master SQL (LinkedIn Learning), Applied Social Network Analysis in Python, Machine Learning, Big Data Specialization (Coursera)

## WORK EXPERIENCE

### Network Science Institute, Northeastern University

*Research Assistant*

Boston, MA

Jan 2021– Present

- Analyzed Data for topic Modeling using COVID news stories from 10,400 news outlets; sampled 150k articles for comparison between coverage trends across US.
- Created a corpus of faculty career trajectory from 250k+ ORCID records, working on graph clustering using networkX.

### D'Amore McKim School of Business, Northeastern University

*Research Assistant*

Boston, MA

Jan 2021– Jul 2021

- Built a Yelp Scraper to extract restaurant data, reviews and reviewer profiles from 273 Chicago restaurants.
- Compared readability, sentiments and similarity on 36000+ Mutual fund Documents using Python.

### Larsen & Toubro Limited

*Senior Engineer*

Mumbai, India

Aug 2018– Dec 2020

- Created dashboards based on IoT data which boosted profitability of the Plant and Machinery. Improved productivity and fuel efficiency by average of 15% across 3700+ machines.
- Mapped logic based dashboards to reduce loss from weighment data and asset diesel issue details. Provided Site support and regular presentations to executive management to ensure proper deployment.
- Facilitated development of Chatbot for Construction Quality metrics on DialogFlow and SQL; improved accuracy to 87 %.

## ACADEMIC PROJECTS

### News Text Summarizer

Feb 2021 – Apr 2021

- Collaborated to create a news summarizer and compared outputs generated by different algorithms (Word frequency & Seq2Seq). Deployed the application using Flask which takes as input news articles and returns its summary. Test cases yielded ROUGE-2 Score of 0.85-0.89.

### Tweet Domain Classification, Multi-Label Classification Model

Jan 2018 – May 2018

- Predicted with help of Machine Learning and NLP, categories of various tweets when input is handle name. Trained dataset on three algorithms and obtained highest accuracy (92%) through Multinomial Naive Bayes.

### Statistical Machine Translation, Hi-En translation

May 2017– Jul 2017

- Developed a domain based Language Model for better En-Hi Machine Translation using Python, NLTK, web and Wikipedia scraping methods leading to 33% better BLEU score than GIGA-LM corpus.

## LEADERSHIP, HONORS & VOLUNTEERING

- Grace Hopper Conference & Tapia Conference Scholar, 2021.
- Volunteer Lab Support for Microsoft TEALS program for school year 2021-22; Mentor and Teacher at Jyoti ,2015-18.
- Awarded with 'Top-Performer' at Larsen & Toubro Ltd for FY 2019-20.
- Secretary of Communication Cell & Event Manager for Sristi'17.