Samar Dikshit
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Available: January – August 2021

EDUCATION

Northeastern University, Boston, MA — September 2019 – Present
Khoury College of Computer Sciences — Expected Graduation: December 2021
Candidate for Master of Science in Data Science
Related Courses: Data Management and Processing, Information Retrieval, Machine Learning, Algorithms

Manipal Institute of Technology, Manipal, India — July 2015 – July 2019
Department of Information and Communication Technology
Bachelor of Technology in Computer and Communication Engineering

TECHNICAL KNOWLEDGE

Programming Languages:	Python 3, R, Java, C++, C#
Data Science Technologies:	NumPy, pandas, PyTorch, Matplotlib, NetworkX, scikit-learn, SciPy, Seaborn, caret, tidyverse, MySQL
Operating Systems:	Windows, Ubuntu

EXPERIENCE

Northeastern University, Boston, MA
Research Assistant – Center for Complex Network Research — June 2020 – Present
- Working on collecting and analysing data related to philanthropies and non-profits to determine the factors that influence grants and donations using network analysis and language processing

Teaching Assistant – DS2000 Programming with Data, CS3000 Algorithms — May 2020 – December 2020

Pepper Cloud, Bangalore, India — January 2019 – July 2019
Software Development Intern
- Designed, built, and trained a chatbot for the CRM platform to automate non-trivial tasks and make the platform more user-friendly using Node.js and Dialogflow
- Worked on creating a tool for dynamic graphical visualisations of a client's CRM data using D3.js

ACADEMIC PROJECTS

Detecting Brain Tumours using Machine Learning — October 2020 – December 2020
Northeastern University, Boston, MA
- Trained a set of classifiers that can detect a brain tumour when given an MRI scan
- Used decision trees, adaptive boosting, and a convolutional neural net to achieve a peak sensitivity and accuracy of 98.27% and 99.17% with cross-validation, hyperparameter tuning, and feature selection

The Application of Data Mining for Food Recommendation — July 2020 – August 2020
Northeastern University, Boston, MA
- Worked on pre-processing text data related to over 4,800 recipes, followed by data analysis: network analysis, and association rule mining
- Created two recommendation models for food recipes using Doc2Vec and one-hot encoding

Assessing the Similarities and Differences between News Sources in the United States — October 2019 - November 2019
Northeastern University, Boston, MA
- Developed a set of filters to obtain articles related to politics out of the 72,000 articles scraped from various news websites
- Created visualisations in R illustrating how different organisations report various events using bigrams, word associations, and analysing the most used terms in headlines

More projects can be found here.