Samar Dikshit

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Available: January – July 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, Matplotlib, NetworkX, scikit-learn, caret, tidyverse, MySQL

Operating Systems: Windows, Ubuntu

EXPERIENCE

Northeastern University, Boston, MA

Teaching Assistant – DS2000 Programming with Data   October 2020 – Present

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, donations, and other philanthropic giving

Teaching Assistant – CS3000 Algorithms and Data   May 2020 – June 2020

Pepper Cloud, Bangalore, India   January 2019 – July 2019

Software Development Intern

- Designed and built 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

ACADEMIC PROJECTS

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

Training an Algorithm to Predict a Ranked List   April 2020

Northeastern University, Boston, MA

- Trained machine learning algorithms to create ranked lists of documents that would normally be generated by slower information retrieval models such as BM-25 and tf-idf
- Improved the average precision of the ranked lists by using support vector regression and linear regression

Assessing the Similarities and Differences between News Sources   October 2019 - November 2019
in the United States

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