

Arushi Agarwal

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TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript ES6

Web Development: React, HTML5/CSS3, NodeJS, Postgres, MongoDB

Data Science: Scikit-learn, Pandas, Jupyter Notebooks, Tensorflow, Seaborn, Matplotlib, Spyder

EDUCATION

Northeastern University, Boston, MA Jan. 2021 - Present

Expected Graduation: Sept. 2023

Candidate for *Master of Science in Computer Science*

Amity University, India Jul. 2016 - Oct. 2020

BS in Biotechnology

PROFESSIONAL EXPERIENCE

Northeastern University, Boston, USA May. 2021 – Present

Graduate Teaching Assistant

- Teaching Assistant for Data Structures, Algorithms and their Applications within Computer Systems- CS 5008 (Fall 2021)
- Teaching Assistant for Algorithms and Data- CS 3000 (Summer 2 2021)
- Teaching Assistant for Object Oriented Design- CS 3500 (Summer 1 2021)

Northeastern University, Boston, USA Jan. 2021 – present

Student Ambassador

- Made 1000+ cold calls to potential applicants.
- Connected incoming and prospective students with Enrollment Management.
- Aided potential students with questions regarding Northeastern University and it's programs.

Council of Scientific and Industrial Research - IGIB, Delhi, India Feb. 2020 – Mar. 2020

Computational Biology Research Intern

- Worked on data analysis and data wrangling using Python.
- Analysed data of SRC Kinase family to study mutations causing cancer.
- Built a Machine Learning model to predict significance of mutations.

Technical University of Munich, Munich, Germany May. 2019 – Jul. 2019

Machine Learning Research Intern

- Wrangled raw dataset with 10,000+ samples of fish injuries.
- Developed ML model to predict vitality of fish and probability of specific fish injuries.
- Wrote ML tutorials and held Python workshops for ecology and biology professors.
- Built a motion detection program to track underwater fish activity using OpenCV.

PUBLICATIONS AND PROJECTS

The MITRE Corporation - Augment Alexa July 2021 - Aug 2021

- Worked with MITRE team and Built Alexa skills to incorporate functionality with MITRE's app. Used NodeJS for backend.
- Created built in and custom slots, intents, dialogs, api endpoints via AWS Lambda, actions, and responses to mimic a flow of dialog between the user and Alexa.
- Used dialog delegations, developed another way of creating dialog between the user and Alexa.

IEEE Xplore - Analysis of Machine Learning Algorithms and Obtaining Highest Accuracy for Prediction of Diabetes in Women Mar. 2019

- Compared multiple Machine Learning algorithms to predict the probability of Diabetes in young women.

International Journal of Pure and Applied Mathematics - Malignant Tumor Detection Using Machine Learning through Scikit-learn Mar. 2018

- Used Python's Scikit-learn library to detect the malignancy of a tumor using breast cancer data.