

Colin Mullaney

Northeastern University senior with 1.5 years of industry co-op experience, seeking a Data Science position. Experience with all steps in data processing pipeline, from data ingestion and exploration, to feature engineering and model training.

EDUCATION

Northeastern University, Boston

SEPTEMBER 2014 - PRESENT

Khoury College of Computer Sciences

Candidate for a Bachelor of Science in Computer Science and Mathematics, 2019

GPA: 3.9/4.0

WORK EXPERIENCE

Cyft, Cambridge — Data Science Co-op

JULY 2018 - DECEMBER 2018

- Performed exploratory analysis of a wide variety of healthcare data, determining areas of impact and forming data narrative for clients
- Developed process for automating the execution of multiple Zeppelin notebooks, reducing pipeline runtime significantly
- Designed and tested suite of Scala functions to validate quality and content of incremental data transfers from clients

Legendary Applied Analytics, Boston — Quantitative Research Co-op

JANUARY 2017 - JUNE 2017

- Improved performance of Twitter emotion classifier through parameter tuning and feature engineering, implemented neural network with Keras
- Created web scraping tool for gathering and storing TV series data using BeautifulSoup and MongoDB, reducing manual scraping time by over 90%
- Presented results of box office projection model to stakeholders

PowerAdvocate, Boston — Software Engineering Co-op

JANUARY 2016 - JUNE 2016

- Contributed to Agile workflow as a full stack developer, working with Java in the back end, ExtJS in the front end, and SQL for databases
- Implemented new features, fixed various bugs, and performed feature and regression testing for the Supplier Intelligence tool

PROJECTS

Yelp Rating Classifier — github.com/cmullaney12/YelpClassifier

- Collected reviews via Yelp Fusion API, generated numerical features
- Trained SVC, KNN, RandomForest and ordinal regression models via parameter-search and cross validation
- Predicted 5 star rating, evaluated with custom error functions

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[cmullaney12.github.io](https://github.com/cmullaney12)

TECHNICAL SKILLS

Programming Languages:

Python, SQL, Scala, R, Java

AWS Tools: S3, EC2, EMR,

Lambda, CloudFormation,

CloudWatch, SNS

Software: Git, Apache Spark,

pandas, sklearn, numpy, keras,

Zeppelin/Jupyter notebooks

RELEVANT COURSEWORK

Machine Learning and Data

Mining: Supervised predictive

models, regression,

classification, dimensionality

reduction, regularization

Artificial Intelligence:

Heuristic search, planning,

machine learning, game

playing, reinforcement learning

Statistics and Stochastic

Processes:

Markov chains, chi-square test,

t-test, linear regression

UNIVERSITY INVOLVEMENT

Student Involvement Board,

Husky Ambassadors, Students

Today Alumni Tomorrow,

Computer Science Mentoring

Organization

INTERESTS

Cooking, painting, mentoring,

board games, hockey, reading

Available starting July 2019