

Courtney McGill

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Bio

I am a Machine Learning Engineer with >2 years of experience in the financial technology industry.

I have developed expertise in statistical modeling, machine learning algorithms, and big data tools.

Education

Colgate University, 2016
Computer Science & Sociology
GPA: 3.7/4.0

Awards/Honors

Magna Cum Laude
Honors in Computer Science
Y II E Honor Society for CS
HackMIT: Best Use of MongoDB
Grace Hopper Scholar
Outstanding contribution to CS dept.

Non-Tech Roles

Client and regulator facing
Director of tech talk show
Peer-mentor
Co-president of Women in CS
Presenter/panelist on ML topics

Soft Skills

Communication
Leadership
Teamwork
People management
Public speaking
Creative problem solving

Technical Skills

Languages

Python – SQL – R – Java – JavaScript

Libraries

Pandas – NumPy – Scikit-learn – TensorFlow – H2O

Tools

Hadoop – Hive – Spark – Impala – Docker

Experience

August 2016 – Present

Machine Learning Engineer / BNY Mellon

Responsible for the end-to-end lifecycle of all machine learning and data science projects on the Clearance and Collateral Technology team

- Works with the business team to identify primary pain-points
- Draws from prior knowledge and conducts research on preexisting use cases and relevant statistical and machine learning algorithms
- Pulls needed data from Hadoop and production databases
- Samples, decomposes, cleans, and scales data
- Designs, trains, tests, fine-tunes, and evaluates models
- Analyzes, documents, and presents results
- Oversees and manages work done by two other ML engineers

June 2015 – August 2015

Software Engineering Intern / HP

Worked as a backend-engineer on the Cloud Professional Services team

- Created an application that monitored and reported on core services
- Utilized open source APIs and automated tedious tasks to increase team efficiency

Featured Projects

- Built a deep-learning neural net that predicts which government debt transactions are going to fail
- Created an anomaly detection system that identifies trade abnormalities by clustering on time-series data
- Conceived and implemented an original algorithm that manipulates and restructures boolean algebras (applications in mathematics & electrical engineering)