

# Talia Chopra

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## Educational Experience

### **Master of Science in Computer Science, Concentration in Machine Learning, Jan 2019 – December 2021 (Expected)**

Georgia Institute of Technology (4.0 GPA) • Remote

**Key Coursework:** Deep Learning (in progress), Machine Learning, Machine Learning for Trading, Computer Vision, AI for Robotics, Knowledge Based AI, Intro to Operating Systems

#### ***Project Highlights:***

- Tuned and compared the performance of multiple machine learning models, including neural networks, decision trees, SVMs, and decision tree ensemble learners on two binary classification datasets. Improved model performance by 5%, on average. (Python)
- Implemented an experiment to compare random forest and decision tree forest model predictions of advantageous security trades. Compared models performance against the S&P 500 and measured training and inference time. (Python)
- Implemented Q-Learning and Dyna-Q solutions for a reinforcement learning problem - robot navigation. (Python)
- See more projects [here](#).

### **Computer Science Coursework 2017 – 2018**

Foothill College (4.0 GPA)

**Key Coursework:** Object Oriented Programming in C++, Advanced Data Structures and Algorithms in C++, Linux Shell Programming, Software Design in C++.

### **Bachelor of Arts in Economics, Minor in Mathematics 2012 – 2016**

University of California, Santa Cruz • Summa Cum Laude, Highest Honors (3.97 GPA)

**Key Coursework:** Multivariable Calculus, Linear Algebra, Statistics, Real Analysis, Computational Methods and Applications in MATLAB, Macroeconomics, Advanced Topics in Macroeconomics, Microeconomics, Money and Banking, Econometrics.

## Professional Experience

### **AI/ML Programmer Writer, October 2019 - Present**

Amazon Web Service (AWS) at Amazon, Inc.

#### ***Responsibilities / Achievements***

- Train and test machine learning models in the cloud using Amazon SageMaker to create tutorials and demos.
- Use and write about AWS ML services, including Amazon SageMaker distributed (a deep learning distributed training library), MXNet, Amazon S3, Amazon IAM, Amazon S3 and Amazon Augmented AI to solve business use-cases.
- Co-authored blog posts on the AWS Machine Learning blog to teach customers how to use AWS services. See examples [here](#).

### **Business Development Lead, June 2016 - October 2019**

Schneider Estates, Inc.

#### ***Responsibilities / Achievements***

- Research and integrate new technologies into business workflows to improve lead acquisition and customer service, resulting in 2x more leads in the company pipeline, monthly.

### **FDIC Financial Management Scholar, June 2015 - August 2015**

Federal Deposit Insurance Corporation (FDIC) • Internship

#### ***Responsibilities / Achievements***

- Participated in the Financial Management Scholar Program in the risk management division. Gained hands-on experience evaluating bank operations, business planning, risk management strategies, and consumer protection practices.

## Languages and Technologies

**Languages:** Python, C++, C, HTML, CSS, Java

**Machine Learning Frameworks:** scikit-learn, Pytorch, MXNet.

**Libraries:** Numpy, Pandas, openCV, SciPy, gRPC

**OS and Tools:** Linux, Unix, Git, JupyterLab