Machine Learning Engineer

Recruiting: TX - Plano, United States of America, Plano, Texas

At Capital One, we’re building a leading information-based technology company. Still founder-led by Chairman and Chief Executive Officer Richard Fairbank, Capital One is on a mission to help our customers succeed by bringing ingenuity, simplicity, and humanity to banking. We measure our efforts by the success our customers enjoy and the advocacy they exhibit. We are succeeding because they are succeeding.

Guided by our shared values, we thrive in an environment where collaboration and openness are valued. We believe that innovation is powered by perspective and that teamwork and respect for each other lead to superior results. We elevate each other and obsess about doing the right thing. Our associates serve with humility and a deep respect for their responsibility in helping our customers achieve their goals and realize their dreams. Together, we are on a quest to change banking for good.

Machine Learning Engineer

Capital One is seeking a Machine Learning Engineer for an exciting new initiative to develop a fraud detection system that provides an outstanding experience for our customers. You will work closely with our product, design, and engineering teams to develop machine learning models leveraging rich data to bring greater intelligence and humanity to our digital messaging with customers.

At Capital One, data is at the center of everything we do. When we were a tiny startup in 1988, we disrupted the credit card industry using an information-based strategy to individually personalize every credit card offer using statistical modeling and relational databases. Fast-forward to the present and our passion for data has skyrocketed us to a Fortune 200 company and a leader in the world of data-driven decision-making. Twenty-five years after Capital One was started, it is still led by its founder who is committed to making it a leading tech company, not just a leading bank. Be ready to join a community of the smartest people you’ve ever met, who put the customer first, and want to use their data skills to change banking for good.

As a Machine Learning Engineer at Capital One, you’ll be part of a team that’s leading the next wave of disruption at a whole new scale, using the latest in distributed computing technologies and operating across billions and billions of customer transactions to unlock the big opportunities that help everyday people save money, time and agony in their financial lives. You’ll also be part of a strong community of hundreds of software engineers and data scientists doing industry-leading work.

In this position, you’ll spend time creating a fraud detection system from development
through testing and validation to our 30+ million customers in production.

On any given day you may also find yourself:

- Using Spark and related tools to manage the analysis of billions of customer transaction records
- Writing software to clean and investigate large, messy data sets of numerical and textual data
- Designing rich data visualizations to communicate complex ideas to customers or company leaders
- Investigating the impact of new technologies on the future of mobile banking and the financial world of tomorrow
- Building software applications that processes billions of events

The Ideal Candidate will be...

- Curious. You ask why, you explore, you're not afraid to blurt out your crazy idea. You probably have a diploma and an impressive GPA, or you dropped out of college, taught yourself, and routinely win Kaggle competitions.
- Wrangler. You know how to move data around, from a database or an API, through a transformation or two, a model and into human-readable form (ROC curve, Excel chart, map, d3 visualization, Tableau, etc.). You probably know Python, Pandas, Numpy/Scipy, Spark MLLib, H2O, or think everything can be done in a Bash one-liner.
- Do-er. You have a bias toward action, you try things, and sometimes you fail. Expect to tell us what you’ve shipped and what’s flopped.
- Fearless. Big, undefined problems and petabytes don’t frighten you. You can work at a tiny crack until you’ve broken open the whole nut.

Basic Qualifications:

- Bachelor’s Degree or military experience
- At least 5 years of experience in software development
- At least 2 years of experience in open source programming languages for large-scale data analysis
- At least 1 year of experience with machine learning
- At least 1 year of experience with SQL or NoSQL

Preferred Qualifications:
- PhD
- At least 2 years of experience with machine learning
- At least 2 years of experience with SQL or NoSQL