Who we are
At General Motors, we embrace the opportunity to think bigger and aim higher. It’s the confidence in knowing our ideas produce exceptional vehicles and mobility solutions that move the world in exciting new ways. With strong leadership and bold vision, we’re directing the future of transportation—and enriching people’s lives along the way.

What we do
Breakthroughs happen every day here—from advances in vehicle electrification and fuel cell technology to automation and connected car platforms. The knowledge and perspectives of our diverse workforce offer insight into the changing needs of our customers, spark inventive ways to improve our vehicles and elevate our business. And we’re developing more sustainable methods along the way that maximize our planet’s resources and benefit our surrounding communities.

Why work with us
We combine the passion of a startup with the influence of a global powerhouse. We offer careers that are built on a strong foundation and are motivated by discovery. We encourage you to explore few of the many reasons to unleash your talent with General Motors.

GM has led the automobile industry for years with its connected cars, OnStar service, 4G Wifi in virtually every automobile, and most recently its venture into autonomous cars. The prevalence of these data across literally millions of cars translates into massive amounts of data ranging from car performance (tire pressure, gas consumption, radio utilization, etc.) to driver behavior (speeding, sudden stops, location, and the like).

Simultaneously, over the past 5 years, Information Technology has created a best-in-class Hadoop environment to house these and other data about the customer including digital behavior, third-party demographics, service and warranty transactions, and many more.

To-date, most of these data have gone untapped and the Chairman and CEO believes there is opportunity to create better customer experiences, maximize safety, drive incremental revenue, and monetize the data externally through marketplaces and new products. To solve for this, the company recently hired its first Chief Data & Analytics Officer, who will shepherd a cross-enterprise endeavor to maximize the ROI of its Data and Analytics efforts.
The Function & Role

Data Scientist applies Data Science and Modeling techniques to solve complex business problems within General Motors. They must be able to Build predictive models and machine-learning algorithms, analyze large amounts of information to discover trends and patterns, undertake preprocessing of structured and unstructured data as well as monitor and sustain model effectiveness. They will need to be able to combine models through ensemble modeling, present complex information using data visualization techniques and propose solutions and strategies to business challenges that drive business impact.

Key partners
- Line of Business and Function leaders (client)
- Information Technology (for data and tools)

Skills
Proficient in one or more core analytical tools / suites / languages such as SAS, Python, R, Spark Scala, Mathematica and understand their limitations
Proficient in one or more analytical methodologies such as numerical optimization, econometric modeling and forecasting, Statistical modeling, machine learning, optimization, simulation methods and text analytics.
Ability to present results to the business client and analytic peers.

Experience (Entry Level)
Master’s degree in Mathematics, Statistics, Computer Science, Economics, MIS, Data Analytics, or Science with emphasis in at least one of the following areas of concentration:
- econometric modeling
- forecasting
- statistical modeling
- machine learning
- text analytics and/or
- optimization/simulation methods
And At least 5 years (applied or academic) of demonstrated hands-on experience on 4-6 projects utilizing the tools disciplines outlined above.