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Motorsports F1 Strategy Analyst

General Motors (<https://www.gm.com/>)

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6-8 year

\$121,500 - \$248,500 / Year

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What You'll Do

Apply Data Science and Modeling techniques to develop and refine race strategy tools, facilitating insightful pre-race planning and split-second identification of pivotal strategy inflection points during live race events.

- Evolve existing AI/ML models for application in Formula 1: refining existing python code-base where appropriate and reimagining where necessary.
- Develop platform for running and interrogating Monte Carlo free-air simulations.
- Create tire degradation models, refining parameters and coefficient fits for accurate future predictions.
- Conceptualize most efficient means of conveying insights through new visualizations. Prototype working examples and collaborate with IT and software partners to develop production implementations.

Collaborate with diverse technical teams across GM, GM Motorsports and GM sponsored motor sports teams to develop and support race strategy tools and provide analytic guidance.

- Co-develop production race strategy software with data science, IT software development and Andretti Cadillac groups.
- Work with teammates supporting other racing series to apply analysis techniques and modeling approaches to other series to validate processes and refine models.
- Transfer learning and approaches between the series in which GM Motorsports teams compete.

Utilize race strategy tools to verify accuracy, understand performance, and reveal areas for future enhancement. Collaborate with Andretti Cadillac group to implement tools and derive insights for each race event.

Your Skills & Abilities (Required Qualifications)

- Bachelor's Degree in Engineering, Physics, Mathematics, Statistics, Computer Science, Data Science, or related field.

Degree in Mathematics (<https://www.karkidi.com/Find-Jobs/Education/degree-in-mathematics-jobs>)

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Masters degree (<https://www.karkidi.com/Find-Jobs/Education/masters-degree-jobs>)

- 5+ years of experience in a top-level motorsports series including NASCAR, IMSA, F1, IndyCar, or WEC.
- Intimate of motorsports race strategy tools and experience using models and performing analysis to drive strategy decisions during live race events.
- Proficient programing in Python, MATLAB, or similar language.
- Familiarity with AI/ML modeling techniques and methods being developed and applied across industry.
- Strong organization skills, forward thinking mentality, and a superb attention to detail.
- Well-developed interpersonal abilities with experience developing relationships and navigating politics across teams and sanctioning bodies. Patient and considerate with a strong desire to mentor developing engineers.
- This job may be eligible for relocation benefits.

What Will Give You a Competitive Edge (Preferred Qualifications)

- Master’s degree in a quantitative field
- 2+ years developing or utilizing strategy tools in Formula 1
- Knowledge and experience in tire modeling, construction, testing, and validation
- Working knowledge of simulation workflows professional motorsports organization. Experience using simulation tools to optimize vehicle performance.
- Experience with machine learning libraries (e.g. TensorFlow, Scikit-Learn, Spark ML, or equivalent)
- Experience with big data tools (e.g. Hadoop, Spark, SQL, and NoSQL Database experience)

About GM

Our vision is a world with Zero Crashes, Zero Emissions and Zero Congestion and we embrace the responsibility to lead the change that will make our world better, safer and more equitable for all.

Why Join Us

We aspire to be the most inclusive company in the world. We believe we all must make a choice every day – individually and collectively – to drive meaningful change through our words, our deeds and our culture. Every day, we want every employee, no matter their background, ethnicity, preferences, or location, to feel they belong to one General Motors team.



Company Info.

General Motors (<https://www.gm.com/>)

General Motors Company (GM) is an American multinational corporation headquartered in Detroit, Michigan that designs, manufactures, markets, and distributes vehicles and vehicle parts, and sells financial services, with global headquarters in Detroit's Renaissance Center. It was founded by William C. Durant on September 16, 1908, as a holding company, and the present entity was established in 2009 after its restructuring.

Industry	Automotive
No. of Employees	155,000
Location	Detroit, Michigan, USA

Website

https://www.gm.com/ (https://www.gm.com/)

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General Motors is currently hiring Senior Strategy Analyst Jobs in Concord, CA, USA with average base salary of \$121,500 - \$248,500 / Year.

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8-10 year
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General Motors (https://www.gm.com/)
📍 United States
8-10 year
Aartificial intelligence,Continuous Integration & Continuous Delivery - CI/CD,Data science techniques,Leadership Skill,Machine learning techniques,MLOps tools,Operations

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