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AI in Formula One.

Exploring Use Cases For

Race / Performance Engineers

This content is an independent discussion of AI in motorsports engineering and is not affiliated with Formula One, FIA, or any specific team.

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Enhancing Real-Time Decisions

Why It Matters

Race and trackside engineers process vast amounts of live telemetry, making split-second adjustments to maximise performance.

AI provides decision-support tools that help engineers interpret data faster.

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AI-based Engineering Technology

✓ Monitors real-time telemetry and delivers racing line optimisation opportunities.

✓ Provides predictive alerts on tyre degradation, fuel usage, and ERS deployment.

✓ Refines setup adjustments based on track evolution data.

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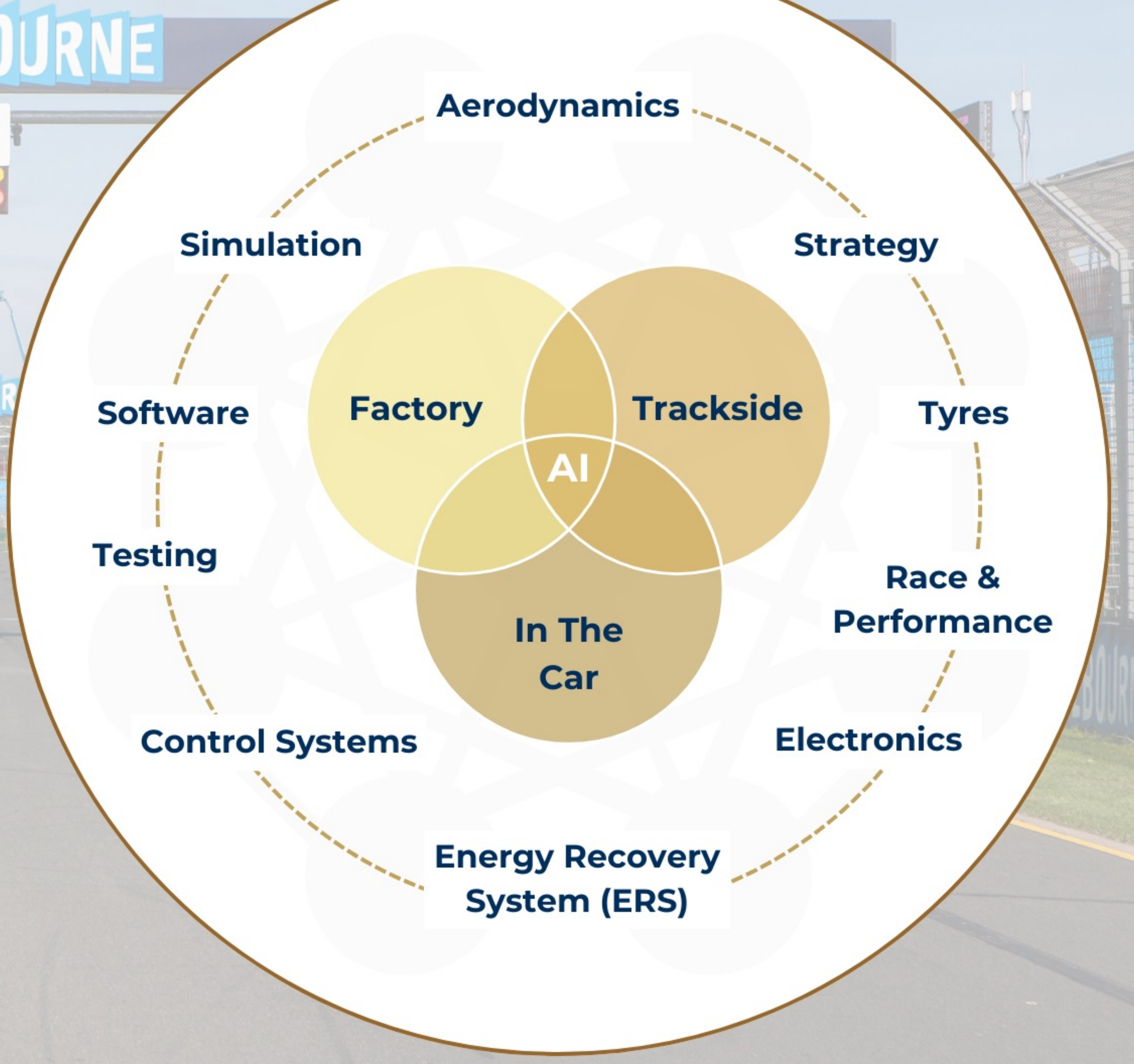
The Future of Racing: Streamlined with AI.



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Potential Applications for Race / Performance Engineers

Racing Line Optimisation

Flag potential opportunities to optimise individual driver racing line and braking zone characteristics.

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Year
2024
Driver
System
All
Model Run
All
Reset

Recommendations
316
Actioned
15
Scenario Runs
4
Comments
15

Track Map

Track Progress Points

Percent Lap Complete
100%
80%
60%
40%
20%
0%

Live energy management optimisation

AI assists in adjusting deployment strategy during the race.

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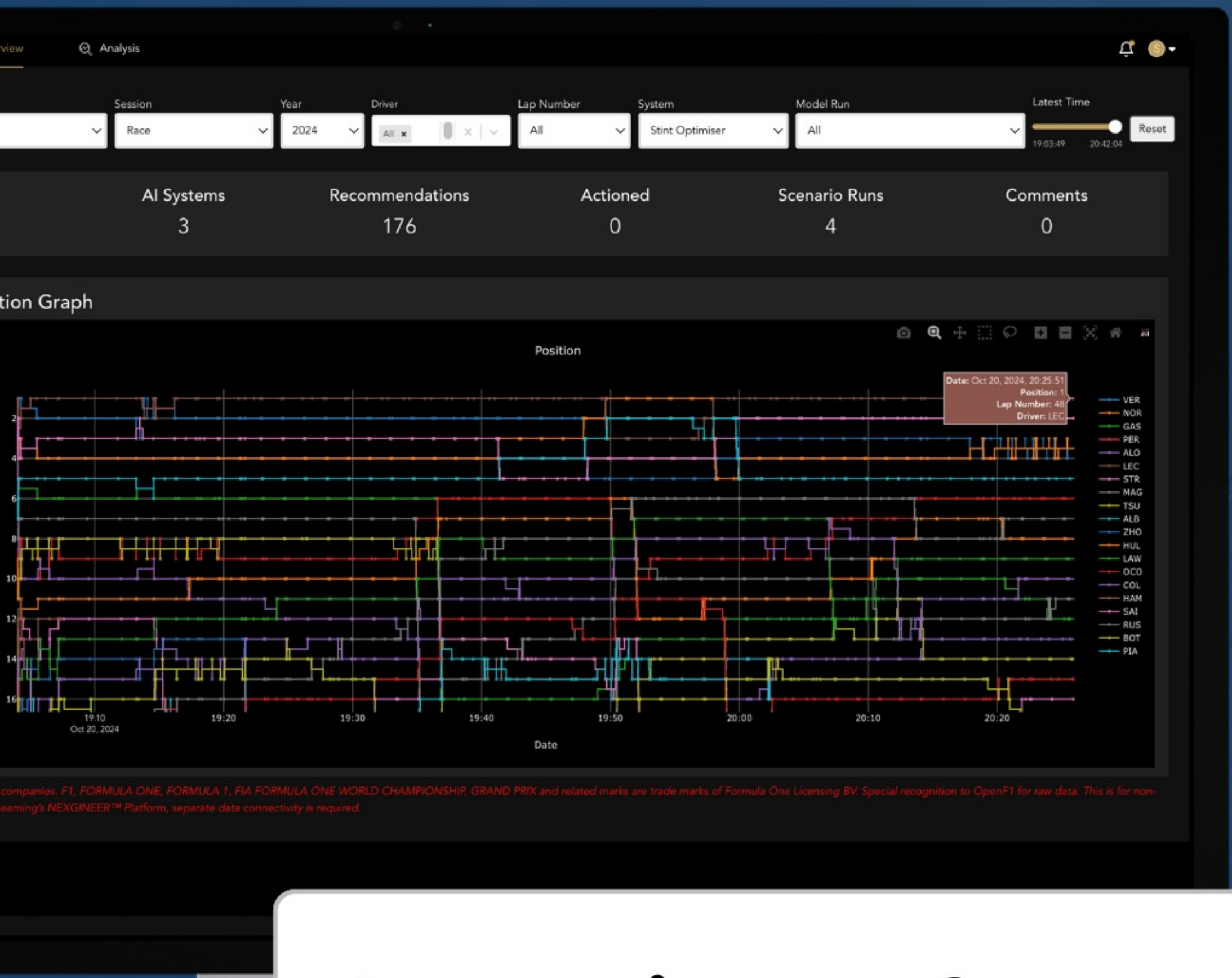

Competitor performance forecasting

Model how rival teams are likely to react during the race.

Next Steps

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AI isn't replacing expertise - it's enhancing it.

To discuss one or more of these AI use cases, contact us today.

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Download your **FREE** copy of the full ***AI in Formula One Guide*** via the link in the caption.