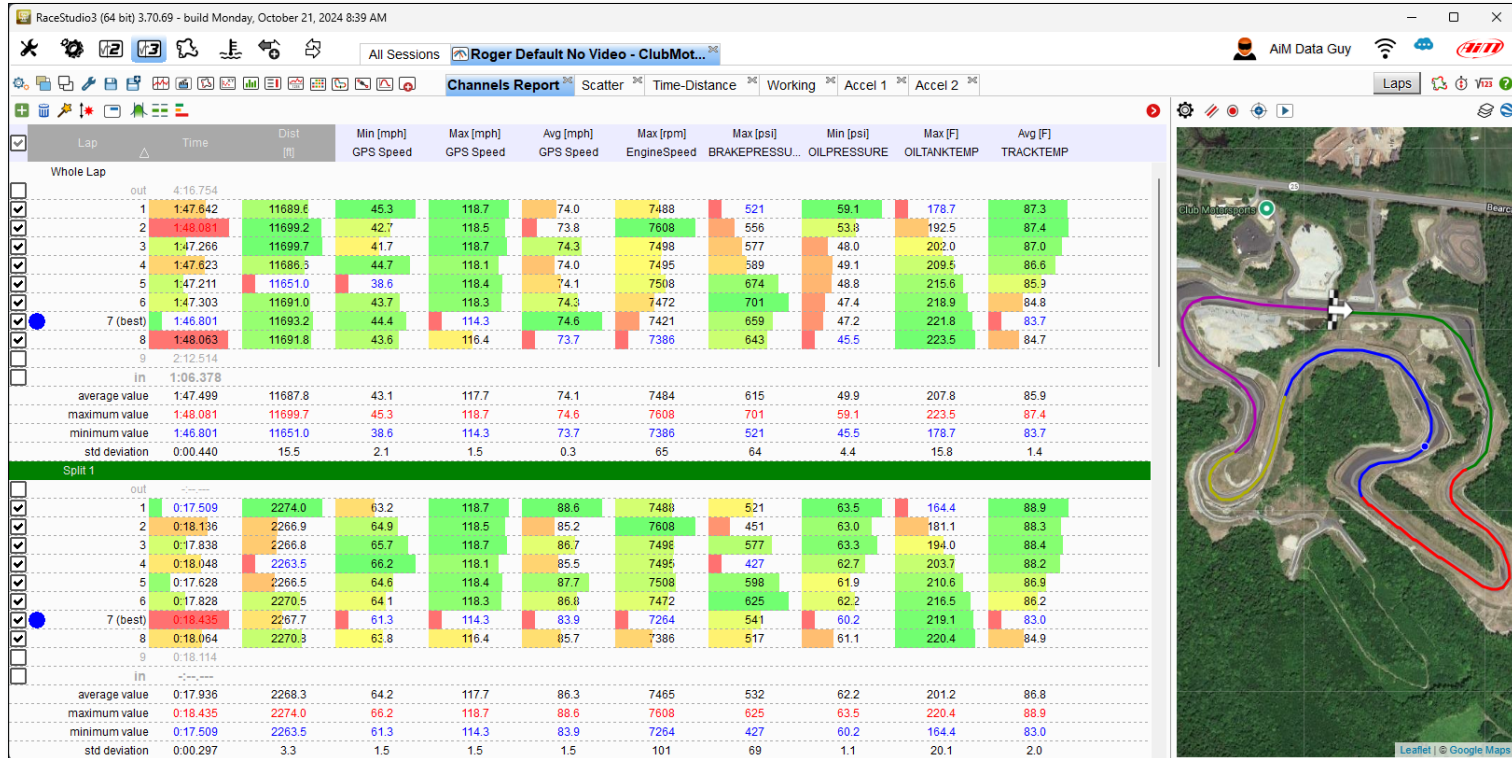


Vehicle Performance

Data Analysis Examples



Host:
Roger Caddell
AIM Sports - National Training Manager

Co-Host:
Matt Romanowski
TrailBrake.com - Owner



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Tuesday November 11th, 2025

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Guest:

Matt Romanowski

www.TrailBrake.com

 @TrailBrakeMatt



- Leading Technical and Stocking AiM Sports Dealer
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Matt Romanowski

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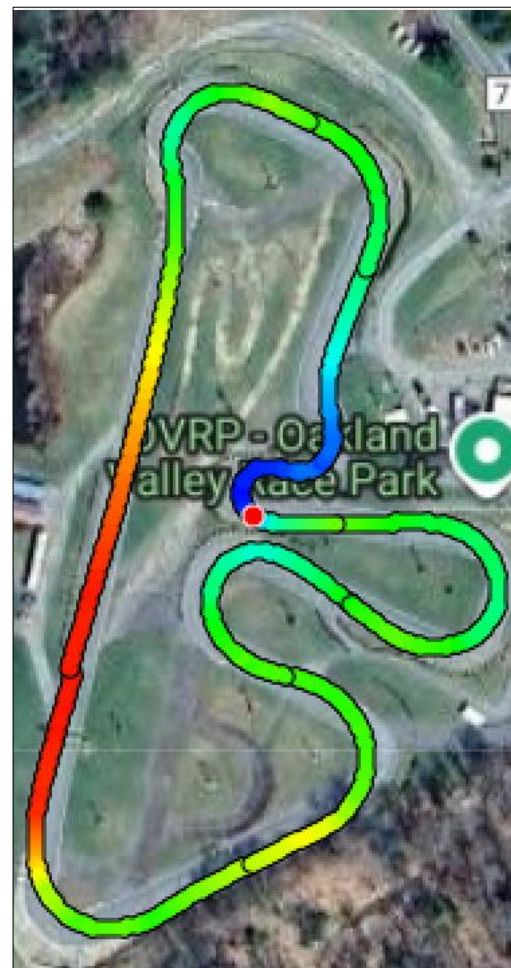
What was the goal of the day?

Testing out the kart



I went to the Oakland Valley Raceway Park to test a rear sway bar in the kart.

- See if the stiffer rear helped “un-grip” the rear
- Reduce hopping
- Get laps



Vehicle Performance

Goal for the Day



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Remember what you did!



Keep a record of the changes

- Baseline with old 7.10 rear tires on 180mm rims
- Baseline new tires, 210 rear rims
- Rear bar full soft
- Rear bar full hard
- Rear bar 45°
- No rear bar, seat strut
- Baseline with new tires

Kart Setup

Date 10/2		Track OVRP		Chassis Marnell's FS4	
Weather 60-70F, Clear					
Initial Setup		Session # 1		Cold Pressure	
Fastest Time		48.376		Hot Pressure	
Engine		13 13		Engine	
Serial # Bostel/C		12.5 12.5		Serial #	
Flex				Flex	
Caster High		Notes 7.1 rear on 6" Rim		Caster High	
Caster Low		Loose Hurdle Slip		Caster Low	
Steer Plug				Steer Plug	
Gearing 10/68				Gearing	
Changes		Session # 2		Cold Pressure	
Fastest Time		49.867		Hot Pressure	
Engine		13 13		Engine	
Serial # MGRed		12.5 12.5		Serial #	
Flex				Flex	
Caster High		Notes		Caster High	
Caster Low				Caster Low	
Steer Plug				Steer Plug	
Gearing				Gearing	
Changes		Session # 3		Cold Pressure	
Fastest Time		46.397		Hot Pressure	
Engine		13 13		Engine	
Serial #		12.5 12.5		Serial #	
Flex				Flex	
Caster High		Notes 7.10 on 7" New tires		Caster High	
Caster Low		First lap. Could be a little more		Caster Low	
Steer Plug		free.		Steer Plug	
Gearing				Gearing	
Changes		Session # 4		Cold Pressure	
Fastest Time		46.751		Hot Pressure	
Engine		13 13		Engine	
Serial #		12.5 12.5		Serial #	
Flex				Flex	
Caster High		Notes New br full soft		Caster High	
Caster Low		Not much diff diff		Caster Low	
Steer Plug				Steer Plug	
Gearing				Gearing	
Changes		Session # 5		Cold Pressure	
Fastest Time		46.616		Hot Pressure	
Engine		13 13		Engine	
Serial #		12.5 12.5		Serial #	
Flex				Flex	
Caster High		Notes New br full hard		Caster High	
Caster Low		Not felt bound. Not realge		Caster Low	
Steer Plug				Steer Plug	
Gearing				Gearing	

Noter to seat slwt 46.580
hoping (worse) 13 13
12.5 12.5

Besides from 1 46.140
some hoping, not bad 13 13
12.5 12.5

Analysis Plan

What to look for?

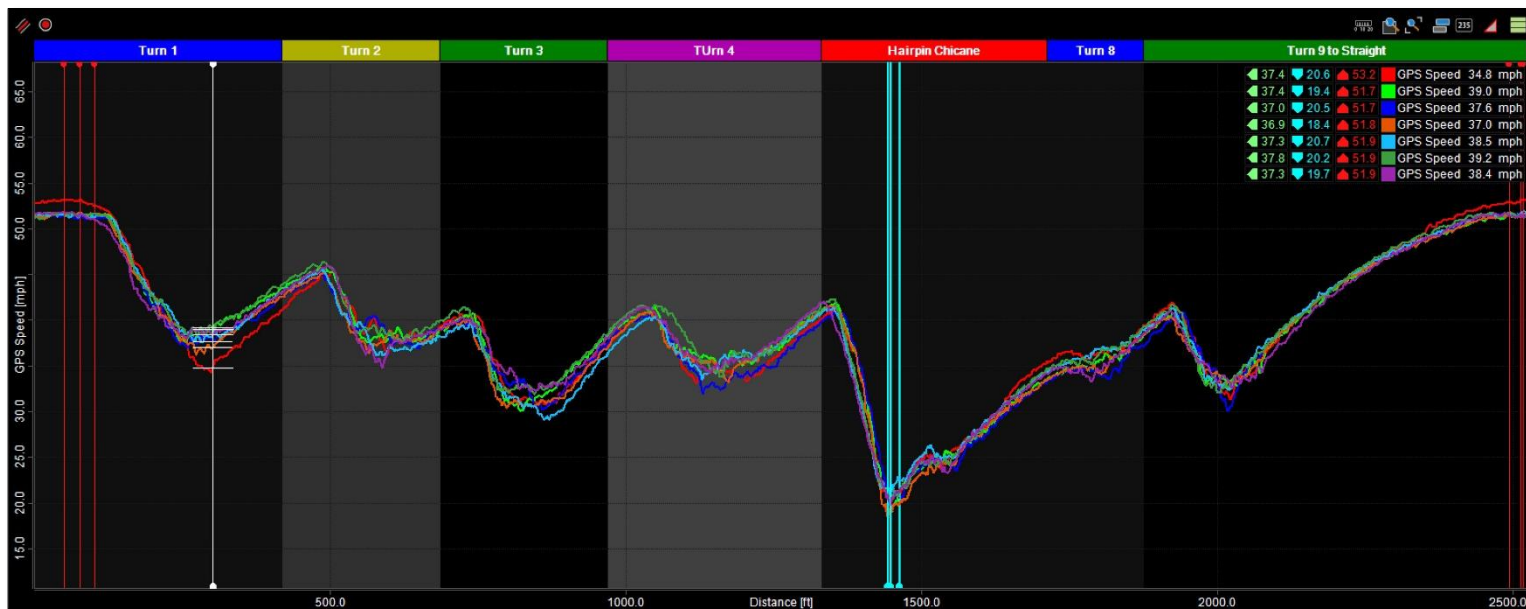


Global

- Min/Max Speed
- Min/Max Lat G
- Min/Max Long G

Lap/Segment

- Min Corner Speed
- Min/Max Lat G
- Time!
- Distance (line)



Vehicle Performance

Analysis Plan

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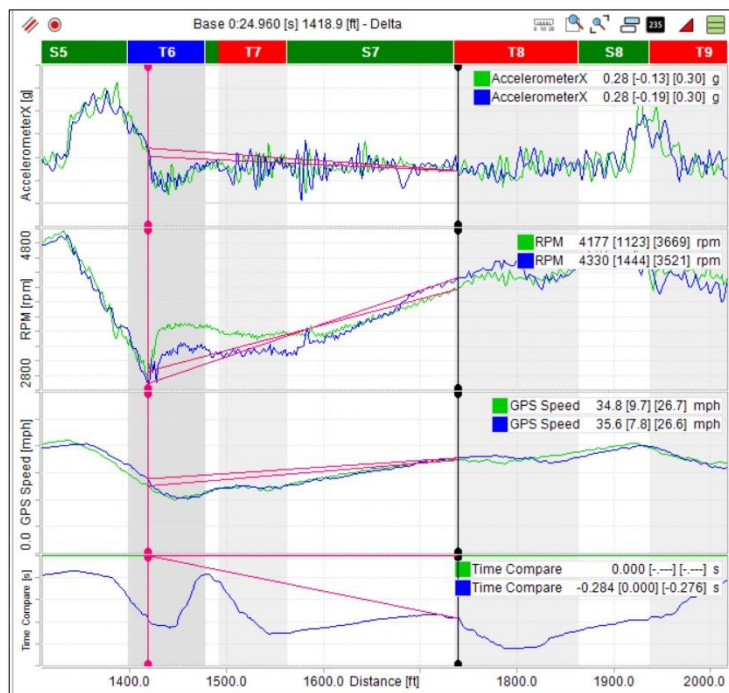


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Clutch Slip

How to Quickly Evaluate

Quick Analysis using Delta Function

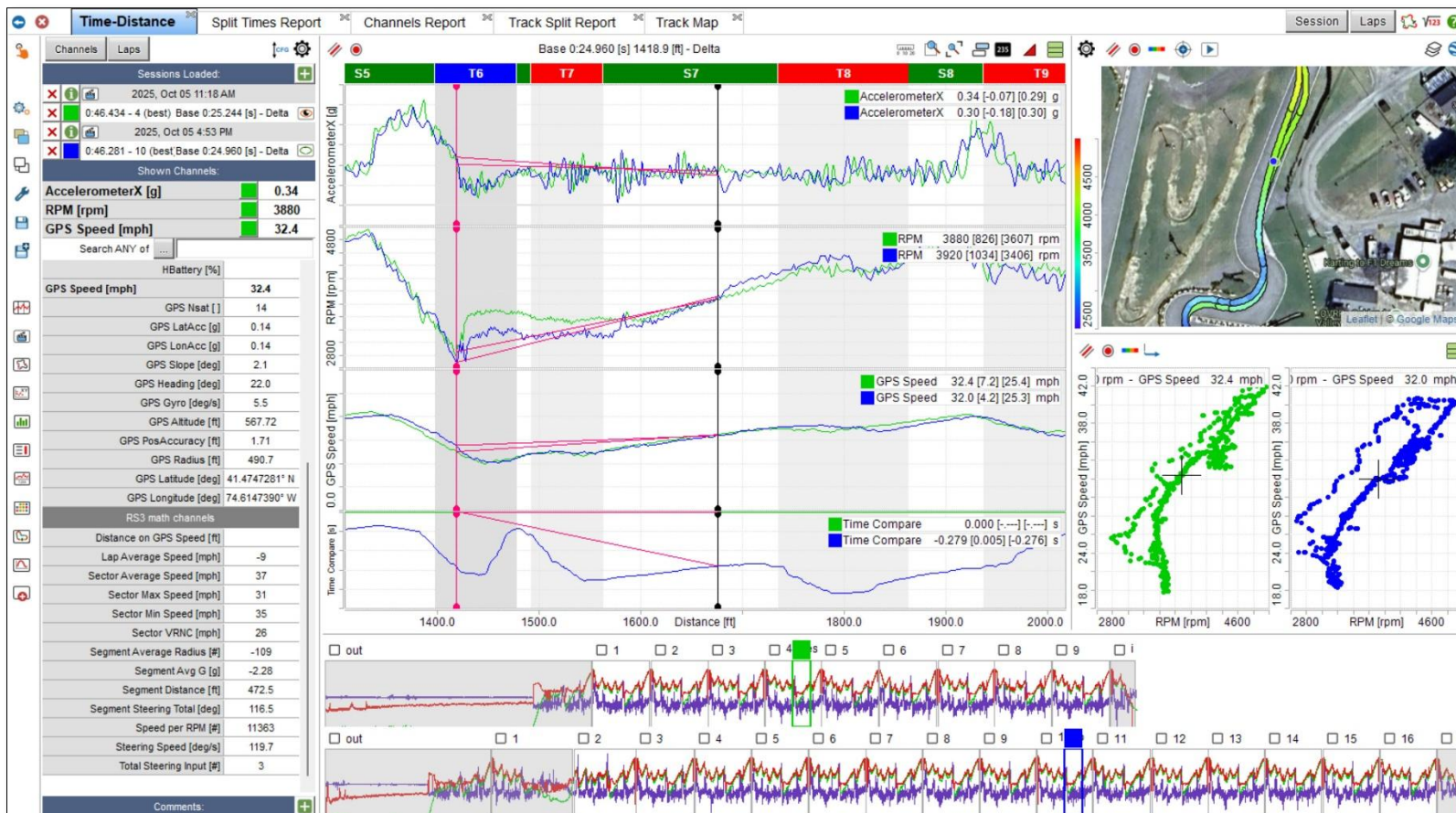


Vehicle Performance

Clutch Slip

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Live Race Studio 3 Demo



Segment Analysis

Live Race Studio 3 Demo

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Currently **295** Videos and Growing

YouTube www.youtube.com/aimdata

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Data Analysis Examples

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Segment Analysis
For Detailed Data Analysis

Host:
Roger Caddell
AIM Sports - National Training Manager

Co-Host:
Ray Phillips
Precision Driving Analysis - Owner

aimsports.com Tuesday October 28th, 2023 LearnFast™

Webinar Series
Bringing Data Support and Training to You

Data Download Options
In Race Studio 3

March 31st, 2020

www.aimsports.com 1.800.718.9090

- All New 2020 - 25 Live Webinar Videos
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 - Configuring WiFi Communication
 - Customizing AiM Device Logos
 - RaceStudio 3 Basic Configuration - Part 1
 - RaceStudio 3 Basic Configuration - Part 2
 - **I Have Downloaded my Data, Now What - Part 1*
 - **I Have Downloaded my Data, Now What - Part 2*
 - GPS Lap Insert
 - Selection Criteria
 - Data Views
 - Sensor Calibration
 - Measure Units
 - Conditional Alarms
 - Sort Channels
 - Gear Position
 - Test Properties
 - Firmware Update
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LearnFast™ E-Training Videos

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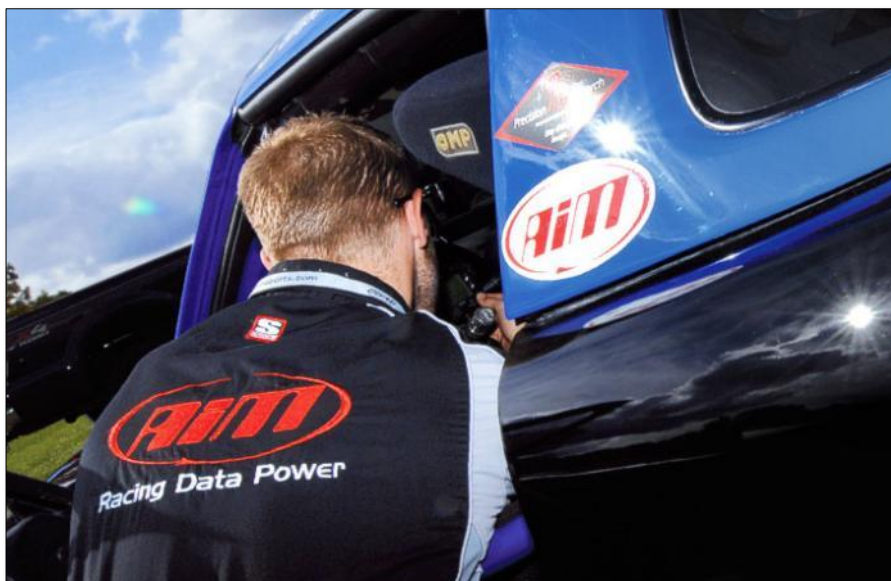
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Customer Support



AiM Sports Technical Support Staff Regularly
Attend Races and Other Events

Look For Us At An Event Near You
Or Call Us At **800.718.9090**



Customer Support

At An Event Near You!

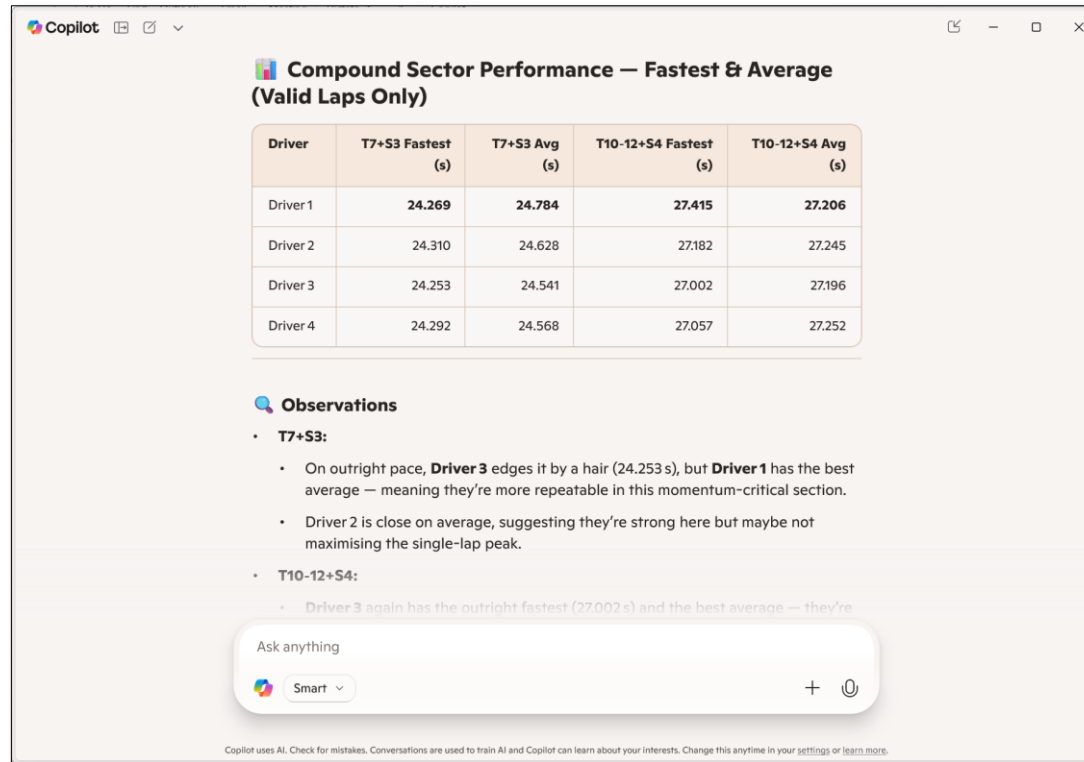
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Next Steps – AI for Data Analysis

With Guest James Colborn



Next AiM Sports Webinar

Tuesday, November 25th, 2025 – 10am Pac / 1pm East

Next Webinar

2nd & Last Tuesday of Each Month

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