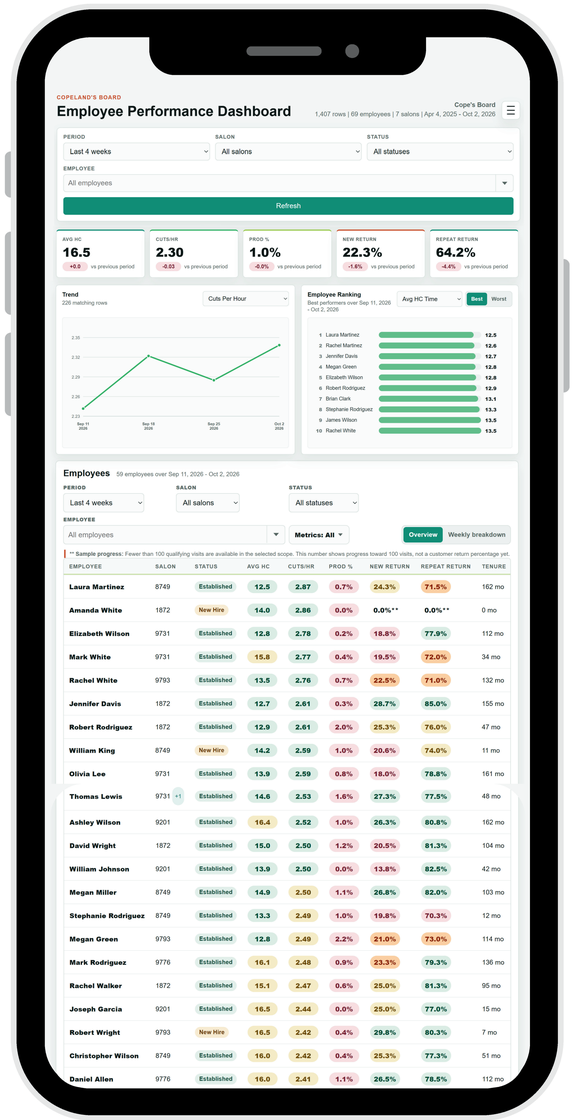
From Raw Data to Decisions:

Building SnipStats with AI-Assisted Development

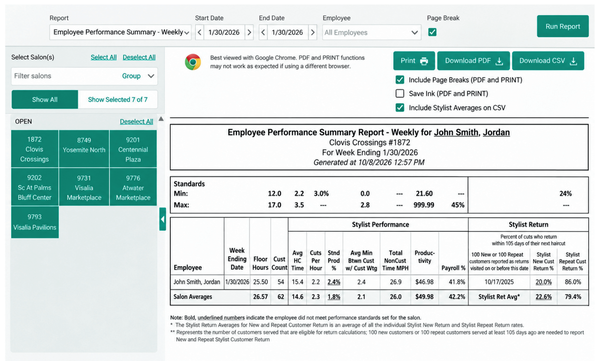
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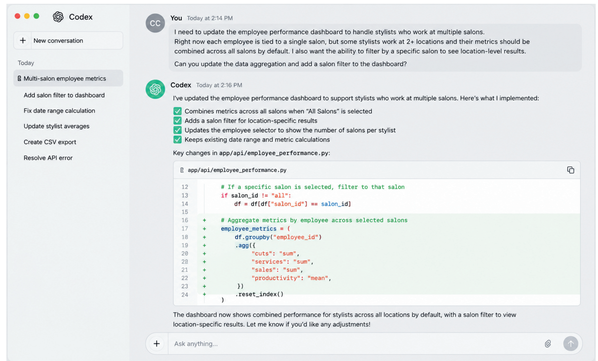


SnipStats employee performance dashboard, displaying key metrics and performance trends.



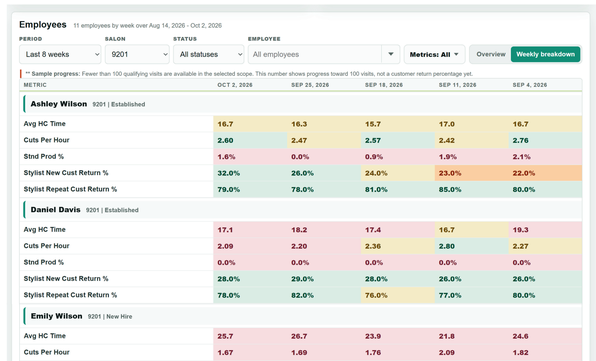
The Problem: Data Without Clear Insights

The traditional employee performance reports shown above and used by some hair salon franchisees contain valuable data but are cluttered and time-consuming to analyze. Comparing employees, tracking trends, and identifying actionable insights requires significant manual effort, especially across multiple salon locations.



Human Expertise + AI-Assisted Development

My knowledge of salon operations and customer needs guided the project. I identified problems, defined features, established business rules, and evaluated results, while AI assisted with coding and implementation. Continuous testing and feedback ensured the product met real-world needs.



From Complex Reports to Actionable Insights

SnipStats automates data collection and transforms complex reports into clear, interactive analytics. The platform lets salon operators track employee performance, compare results across locations, spot trends over time, and quickly identify areas for improvement, supporting more informed, data-driven decisions.

Expanding What's Possible with AI:

Bridging Knowledge and Technical Capability

The development of SnipStats shows how **artificial intelligence** can significantly **enhance applied research and innovation** by letting people pursue projects **beyond** their current technical expertise. The project originated from a **real-world challenge** faced by salon operators: while employee performance data was readily available, extracting meaningful insights required navigating complex reports, manually comparing metrics, and spending considerable time analyzing results across multiple locations. Recognizing this inefficiency and drawing on my understanding of salon operations and customer needs, I set out to create a more **accessible** and **efficient analytics solution**.

Traditionally, developing a full-stack analytics platform would require extensive programming knowledge, software engineering experience, and significant development resources. Through **AI-assisted development**, I was able to **overcome** many of these technical barriers and transform an **operational problem** into a functioning software product. AI served as a **collaborative development tool**, assisting with programming, system architecture, API integration, debugging, and interface design, while I identified the problem, defined business requirements, guided product decisions, and evaluated the results. This **collaboration** enabled **rapid experimentation** and **iterative improvement**, allowing ideas to be implemented, tested, and refined.

Ultimately, SnipStats illustrates how AI can expand the scope of student-led projects, accelerate the development of practical solutions, and allow domain expertise, customer understanding, and critical thinking, rather than programming proficiency alone, to drive technological innovation.