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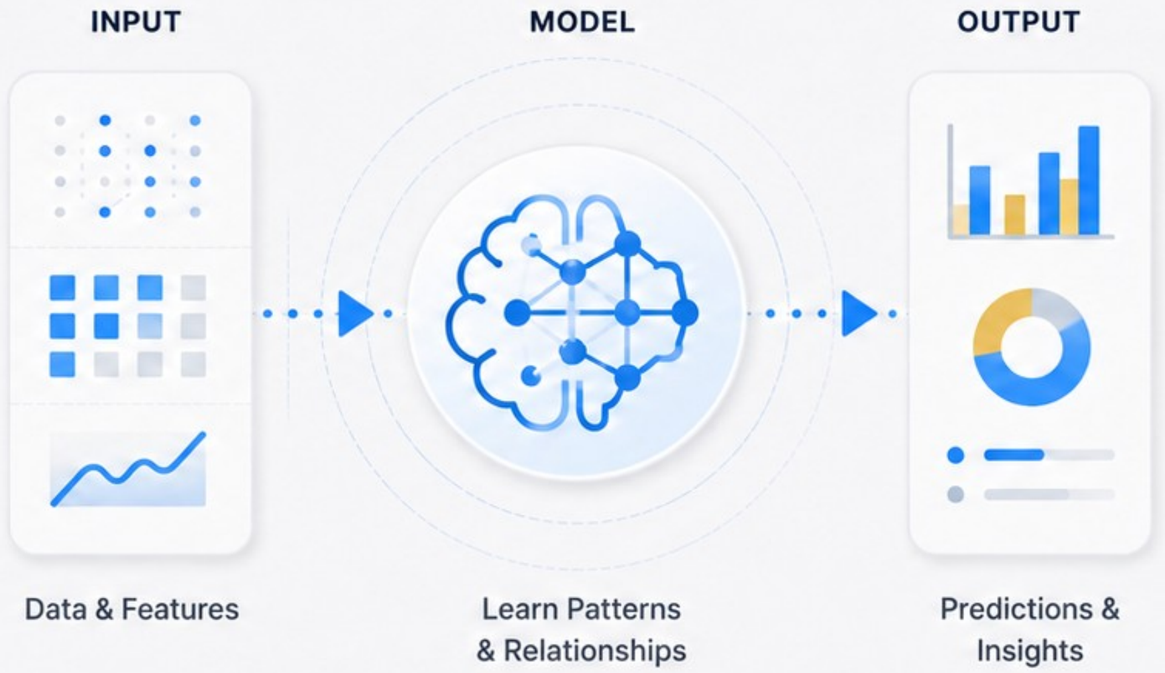
Machine Learning Foundations

Learn by building real machine learning projects

A practical, **project-based** foundation course



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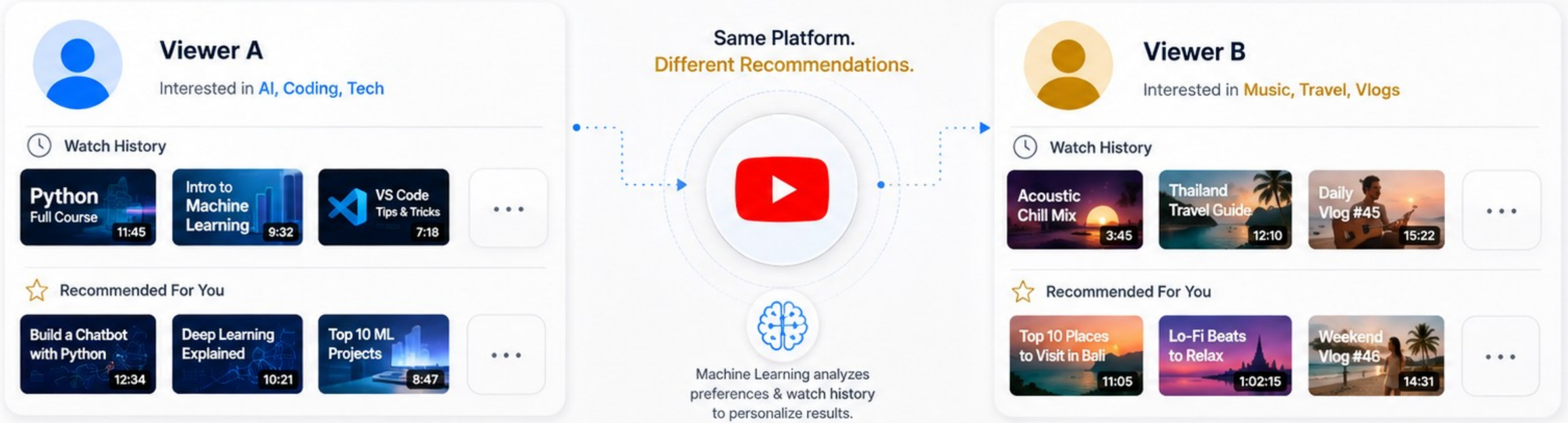
How does YouTube know what you'll watch next?

Machine Learning helps platforms personalize what each user sees.



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Before Machine Learning vs With Machine Learning

ML makes systems adapt, personalize, and improve from data.

Before ML

Static • Manual • One-Size-Fits-All

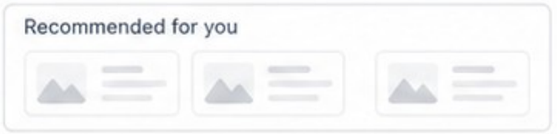
- Same content for everyone



- Manual rules and processes



- Generic recommendations



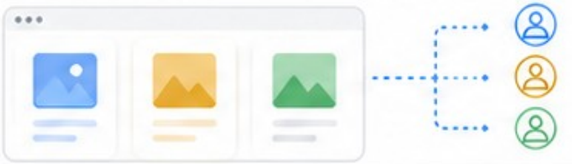
- Slow human review



With ML

Adaptive • Intelligent • Data-Driven

- Personalized experiences



- Smart fraud alerts



- Data-driven predictions



- Adaptive systems



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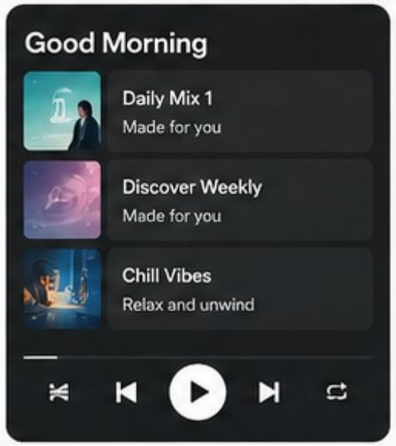
Machine Learning is already around you

You interact with ML many times a day — often without noticing.

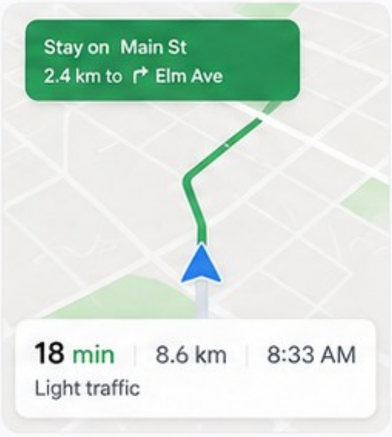
7:30 AM

Music Recommendations



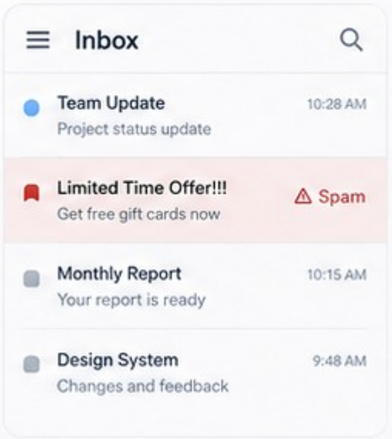
8:15 AM

Smart Navigation



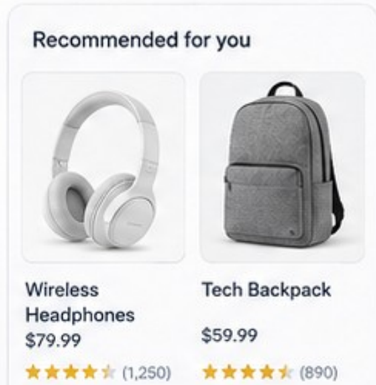
10:30 AM

Spam Protection



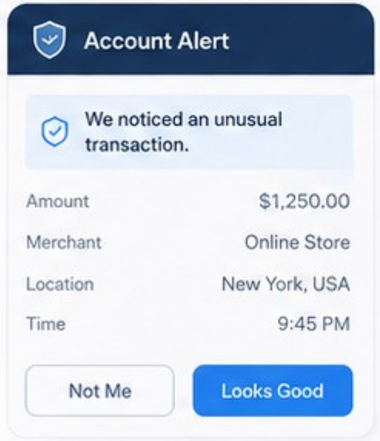
2:00 PM

Product Suggestions



9:45 PM

Fraud Detection



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This is not an algorithms-only course

You will learn Machine Learning as a workflow, not as disconnected formulas.

Algorithm-first learning



1. Formulas
2. Memorization
3. Isolated Exercises

⚠ Hard to apply. Easy to forget.

This course approach



1. Business Problem
2. Understand Data
3. Prepare Data
4. Train Model
5. Evaluate Model
6. Improve Model
7. Deploy & Monitor

✓ Practical. End-to-end. Built for real-world impact.

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Before you start

What you need — and how to get the most from the course.

Prerequisites

Basic knowledge of Python:

- Data types
- Variables
- Conditions
- Loops
- Functions
- Libraries
- Reading basic Python code

No previous ML experience required.

How to maximize learning

- Code along
- Pause and try first
- Test your own ideas
- Complete the notebooks
- Learn from errors



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Who am I?

Meet your instructor



Shady Faragallah
AI Instructor

Taught 500+ students

Bachelor's in Computer Science and Artificial Intelligence

Next: What is Machine Learning?