⬚ Minutes of Meeting (MOM)

Duration: 3 Hours

Topics Covered: GitHub Concepts, Machine Learning Overview, APIs, and Full Stack App Integration.

Note: All updates, notes, and student takeaways will be maintained on GitHub for collaboration.

First 1.5 Hours:

- Taught GitHub concepts with practical use cases.
- Covered: push, pull, pull request, merge conflict, issues, branches (local & remote).
- Conducted 3 labs:
  • Lab 1: https://github.com/skills/introduction-to-github
  • Lab 2: https://github.com/skills/review-pull-requests
  • Lab 3: https://github.com/skills/resolve-merge-conflicts
- Discussed effective teamwork and collaboration on GitHub.
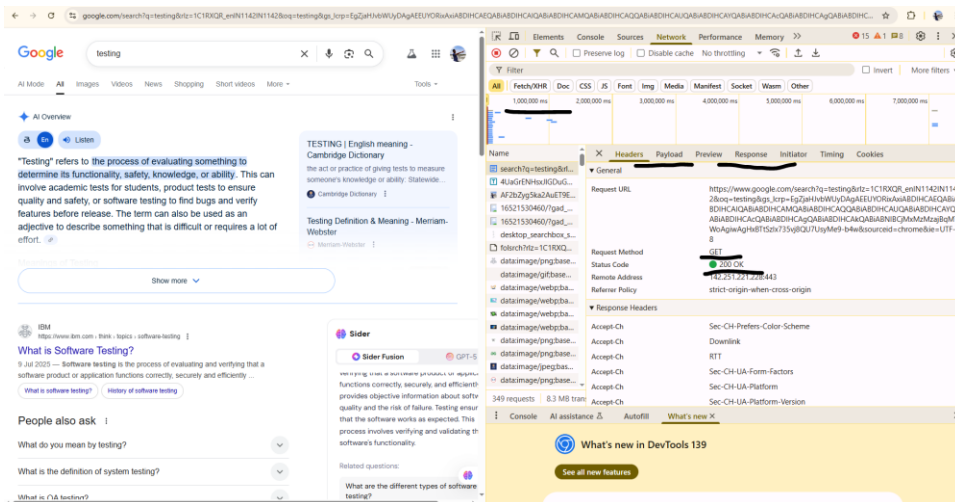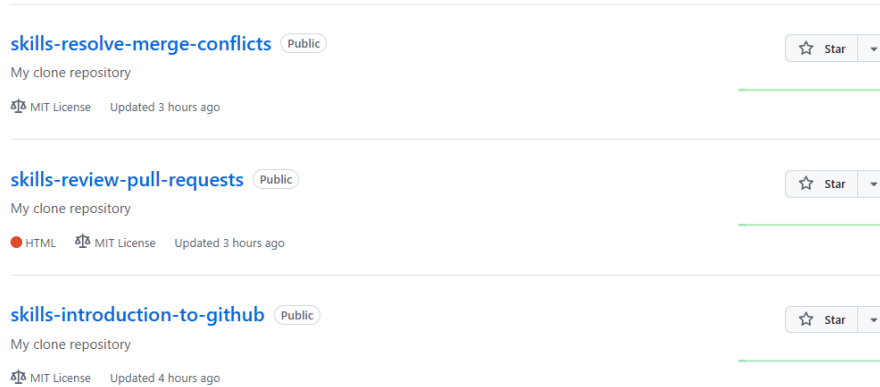
Illustration: GitHub Workflow & DevTools

Illustration: GitHub Student Repositories

Next 1.5 Hours:

- Gave overview on Frameworks and Machine Learning basics.
- Topics: data, segregation (training/testing), prediction, algorithms, model creation & tuning, intro to neural networks.
- Explained how algorithms work (surface level).
- Directed students to learn the math behind algorithms from YouTube playlist:
https://www.youtube.com/watch?v=GGPIjGyUQok&list=PLLUFZCmqicc-vkvCCax14T3OneUyEo2X0
- Introduced concept of storing models as PKL files.
- Overview of using PKL file in full stack applications.
- Demonstrated API method types, response types, headers, and payloads live using Chrome DevTools.

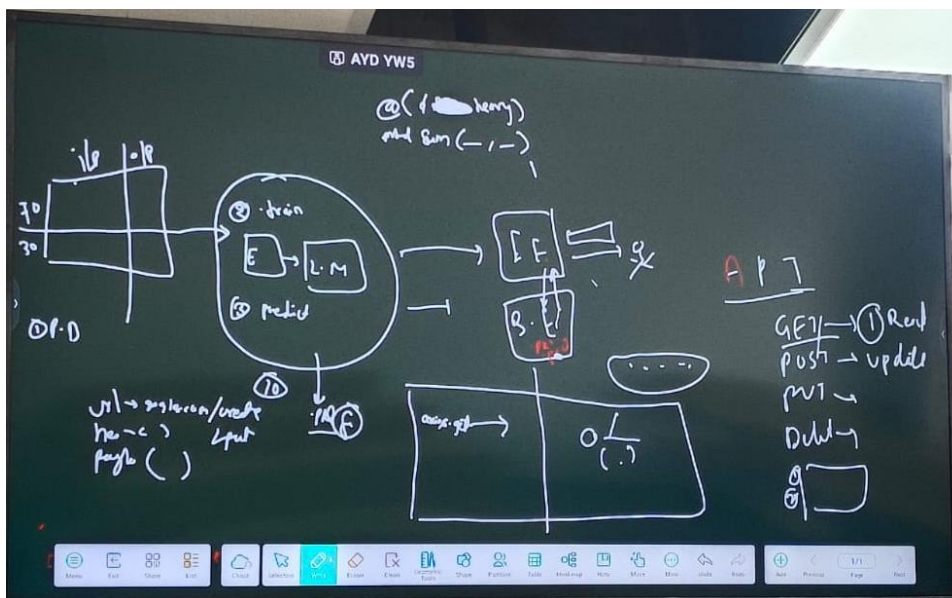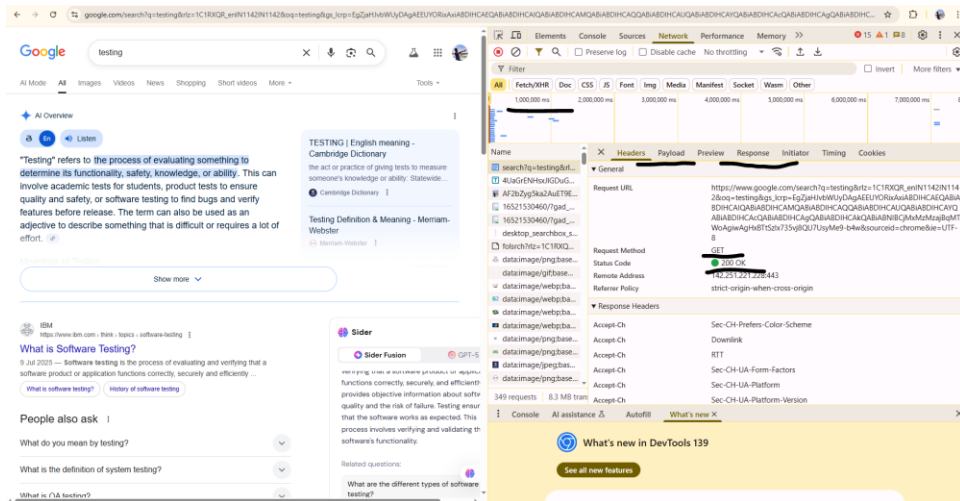Illustration: ML & API Concepts (Classroom Board)

Illustration: API Types Example (Google Search - Testing)

Student Takeaways:

1. Learn Python from shared playlist.
2. Learn the math behind ML algorithms. - https://www.youtube.com/watch?v=cayzifH9sqc&list=PLLUFZCmqicc-vkvCCax14T3OneUyEo2X0&index=2

Journey Python To Machine Learning
Dpoint - 2 / 22

#		Title	Duration
7	CLASSES - PART 1	Python Tutorial - Part 6 - Class and Functions Dpoint	24:20
8	CLASSES - PART 2	Python Tutorial - Part 7 Overloading, Overriding,... Dpoint	13:04
9	FLASK - PYTHON FRAMEWORK COMPLETE DEMO	Python Tutorial - PART 8 - Flask And Api Explained with Demo... Dpoint	16:04
10	Python to ML Journey Reading files different formats Jupyter Shortcuts	Reading Files And Jupyter Notebook Shortcuts Dpoint	23:00
11	Python to ML Journey Datasets Manipulation Data filtering	Dataset Manipulation, Data filtering Dpoint	24:34
12	Python to ML Journey Data frame Manipulation - Part	Dataframe Manipulation Part - 2 Dpoint	32:25
13	Python to ML Journey Visualization - Part 1 Types Of Graphs Plotting and Various parameters	Visualization - Part 1 Dpoint	32:02
14	Python to ML Journey Visualization - Part 2 Interactive Plots 3D Graphs	Visualization - Part 2 Interactive graphs, 3D graphs Dpoint	26:22

3. Try building a small full stack app with API calls between frontend & backend.

Project Repository Naming Convention:
Each student must create a GitHub repository with the name:
abcd-agentic-training-vnr-<yourname>

- Start working on notes and implementations as discussed in class inside this repo.
- If your project grows big, include the link of your project repo inside this repo (abcd-agentic-training-vnr-<yourname>).

⚠ **The given tasks are humongous, so prioritize Machine Learning first, and then move to Full Stack later.**

- by Polisetty Sai Teja