ADVANCED · REAL-TIME APP

Code together in the browser like Google Docs, then *run it safely.*

Several people in one file, live cursors, and a Run button that can't harm your server.

6–10	3	5
weeks to build	parts one prompt won't solve	steps, in order



NYC is taught live by engineers *who work in tech today.*

This brief is by the NYC team. These are the engineers who teach NYC's live classes.

The instructors

FULL STACK AND GENAI

Swapnil

Forward Deployed Engineer, Microsoft

IIT (ISM) Dhanbad. Works on Microsoft Teams.

DSA

Akshay

Senior Software Engineer, Atlassian

IIT Bombay. Earlier at Jio Platforms and Myntra.

DATA SCIENCE AND ML

Abhishek

Engineering Analyst, Google

IIT Kanpur. Earlier at Optum and BARC.

AGENTIC AI

Jaskirat

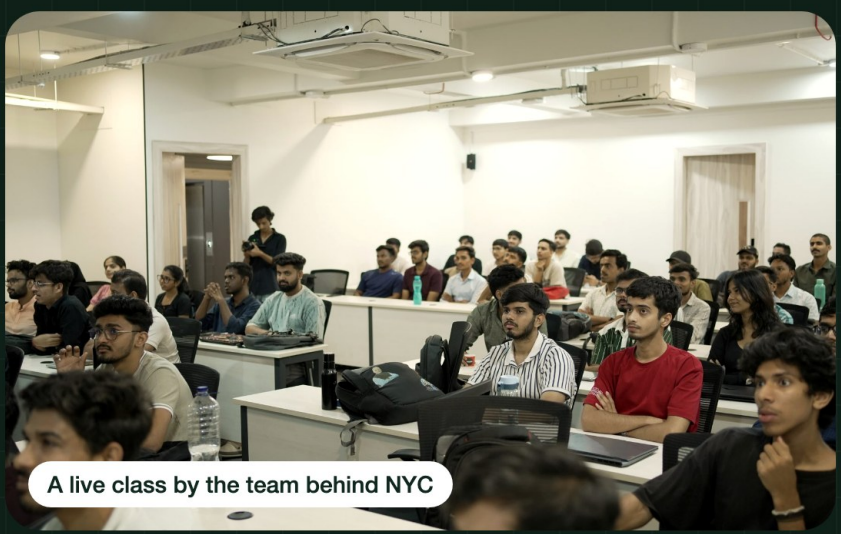
Senior Software Engineer, NTT DATA

Builds agentic AI platforms.

Instructors speak for themselves, not for their employers.

Live classes, five days a week. *Fridays are for building.*

Every NYC course is taught live by engineers, 1.5 hours a day, and engineers review every project.



A live class by the team behind NYC

Four courses

For first and second-year college students

6 months · Software Engineering + AI

4 months · Data Analytics + GenAI

6 months · Data Science & Machine Learning

8 months · AI Engineering

Where our students *work now.*

Students taught by the team behind NYC, at Sheryians Coding School. 1,200+ are placed.

HIGHEST PACKAGE



Kushagra Patidar

SDE 1, Amazon

₹47 LPA

LinkedIn ↗



Anuj Parashar

SDE, Care Health Insurance

₹22 LPA



Rishika Jain

Cisco

₹17 LPA



Mansi Patel

Airtel

₹15 LPA

ADVANCED · 6–10 WEEKS

Code Together: *what you'll build.*

A code editor in the browser where several people edit the same file at once and see each other's cursors. A Run button runs the code on your server in a sandbox and streams the output to everyone in the room.

Test it with real people

Pair-program with friends on real DSA problems for a week.

It must do these 4 things

1. **Several people editing at once with no lost text.**
2. **Live cursors with names.**
3. **Run Python or JavaScript with time and memory limits.**
4. **Rooms with share links.**

What you'll learn

CRDTs · WebSockets · Sandboxing · Containers · Editor libraries

Where one prompt *falls short.*

Use AI for any part you like. These are the parts you will still have to understand, test and fix yourself.

> "Two people type in the same line at once."

1. Two people typing in the same line at once. Simple syncing loses text; you need a method built for this, like CRDTs.
2. Running strangers' code: an endless loop or a "delete everything" command must not touch your server.
3. Someone goes offline, keeps typing and comes back. Their changes must merge cleanly.

At NYC: engineers review work like this with you in live classes, every week.

Build it in *5 steps.*

1. An editor in the browser with rooms.
2. Live editing and cursors with a CRDT library.
3. The sandbox for running code.
4. Offline edits and merging.
5. A week of real pair-programming.

It is done when

- ✓ Three scripts typing at random for 5 minutes end with identical copies.
- ✓ An endless loop is stopped by the time limit.
- ✓ Code in the sandbox cannot read files outside it.

Go further

- Voice chat in the room.
- More languages.
- A replay of the whole session.

Built it? Submit it for a mentor review

Submit at notyourcollege.com/project-ideas. An NYC mentor reviews every build; the best ones may be featured on the NYC website and YouTube channel.

This brief is by the NYC team. Tools, prices and limits change, so check each service's own docs.