

Byte Academy Syllabus

Financial Technology (FinTech)



In order to build financial applications, we first make sure your coding skills are sharp. After you have mastered these we'll combine this with FinTech industry knowledge. You will use these skills to create a portfolio of FinTech projects.

Technology Syllabus

Please refer to the "Full-Stack Python" syllabus for details on the technology portion for this FinTech course. It is expected that you will be completing the entire syllabus of the "Full-Stack Python" for this course.

FinTech

Innovations in the FinTech Industry

We'll develop your industry knowledge and its technical tools so that you'll have a better framework to decide which area(s) of FinTech you would like to address in your projects. There will be heavy emphasis on:

- Conceptual overview of the FinTech industry and areas within it including lending, payments, cryptocurrency/blockchain, KYC, insurance (InsurTech), robo advisory, Regulatory tech (RegTech), more
- Technology trends in FinTech and their applications. We'll introduce you to popular platforms and some widely used API's within the industry. And even hook you up with mentors from some of these companies. API's include Xignite, Yodlee, Reuters, Bloomberg, IBM, Monax and others
- Many FinTech startup founders participate in events at Byte Academy

Data Science Applications in FinTech

Understand the Data Science concepts that are being used by FinTech companies so that you can apply these to your project work

- *Pandas data analysis*
- *Machine Learning and Sentiment analysis*
- *Time Series regression*
- *Overview of algorithms and statistics used in Quant Trading*

Projects

Students have to finish at least two final FinTech Projects in order to graduate, one of which needs to be a group project. Many students end up completing three projects to showcase to prospective employers.

Build a Portfolio and Careers

- All projects: engage in peer review, present projects to students and team members for public speaking practice; collect feedback
- Invite notables in your desired industry to your final project Demo Day
- Craft your portfolio strategy then put it together and optimize with career services
- Job interview guidance including interview-focused algorithm prep & best practices
- Meet the industry: Guest Speakers/Presentations by startups and web firms

Extras - Going Deeper

Some of the items below are optional, and, suitable only if you have sufficiently mastered your technical learning.

Enhancing Industry Knowledge

- Work with a FinTech mentor who will help guide your project work and may provide the opportunity to craft your project for his/her company
- Industry conferences and events: top students can rub elbows with some of the greatest names in FinTech via our event partnerships. Conferences in which we have access include: Finovate (NY, California, London, Hong Kong), FinDEVr (NY, California, London), Quantcon, Finance Disrupted by the Economist, more
- Attend and compete in FinTech Hackathons