



NEW!



NANODEGREE PROGRAM

Artificial Intelligence for Trading

Complete real-world projects designed by industry experts, covering topics from asset management to trading signal generation. Master AI algorithms for trading, and build your career-ready portfolio.

DOWNLOAD SYLLABUS

ENROLL NOW

01
DAYS

19
HRS

31
MIN

09
SEC



ESTIMATED TIME

6 Months

At 10 hrs/week

Go to Course

ENROLL BY

July 14, 2021

Get access to classroom immediately on enrollment

PREREQUISITES

Python & Mathematics

[See prerequisites in detail](#)

BUILT IN PARTNERSHIP WITH

WORLDQUANT.

What You Will Learn

[DOWNLOAD SYLLABUS](#)

SYLLABUS

Quantitative Trading

Learn quantitative analysis basics, and work on real-world projects from trading strategies to portfolio optimization.

[Related Nanodegrees](#)

— [HIDE DETAILS](#)

- **Basic Quantitative Trading**

Learn about market mechanics and how to generate signals with stock data. Work on developing a momentum-trading strategy in your first project.

TRADING WITH MOMENTUM

- **Advanced Quantitative Trading**

Learn the quant workflow for signal generation, and apply advanced quantitative methods commonly used in trading.

BREAKOUT STRATEGY

- **Stocks, Indices, and ETFs**

Learn about portfolio optimization, and financial securities formed by stocks, including market indices, vanilla ETFs, and Smart Beta ETFs.

SMART BETA AND PORTFOLIO OPTIMIZATION

- **Factor Investing and Alpha Research**

Learn about alpha and risk factors, and construct a portfolio with advanced optimization techniques.

ALPHA RESEARCH AND FACTOR MODELING

- **Sentiment Analysis with Natural Language Processing**

Learn the fundamentals of text processing, and analyze corporate filings to generate sentiment-based trading signals.

SENTIMENT ANALYSIS USING NLP

- **Advanced Natural Language Processing with Deep Learning**

Learn to apply deep learning in quantitative analysis and use recurrent neural networks and long short-term memory to generate trading signals.

DEEP NEURAL NETWORK WITH NEWS DATA

- **Combining Multiple Signals**

Learn advanced techniques to select and combine the factors you've generated from both traditional and alternative data.

COMBINE SIGNALS FOR ENHANCED ALPHA

- **Simulating Trades with Historical Data**

Learn to refine trading signals by running rigorous back tests. Track your P&L while your algorithm buys and sells.

BACKTESTING

All Our Programs Include



Real-world projects from industry experts

With real world projects and immersive content built in partnership with top tier companies, you'll master the tech skills companies want.



Technical mentor support

Our knowledgeable mentors guide your learning and are focused on answering your questions, motivating you and keeping you on track.



Career services

You'll have access to resume support, Github portfolio review and LinkedIn profile

optimization to help you advance your career and land a high-paying role.



Flexible learning program

Get a custom learning plan tailored to fit your busy life. Learn at your own pace and reach your personal goals on the schedule that works best for you.

Full List Of Offerings Included:

CLASS CONTENT

Content co-created with WorldQuant



Real-world projects



Project reviews



Project feedback from experienced reviewers



STUDENT SERVICES

Technical mentor support

NEW



Student community

IMPROVED



Student community

IMPROVED



CAREER SERVICES

Resume support



Github review



Linkedin profile optimization



Succeed with Personalized Services

We provide services customized for your needs at every step of your learning journey to ensure your success!

Project Reviewers

Technical Mentor
Support

Get timely feedback on your projects

REVIEWS BY THE NUMBERS

1,400+ project reviewers

2.7M projects reviewed

88/100 reviewer rating

1.1 hours avg project review turnaround time

REVIEWER SERVICES

- Personalized feedback
- Unlimited submissions and feedback loops
- Practical tips and industry best practices
- Additional suggested resources to improve

Learn with the best



Cindy Lin
CURRICULUM LEAD

Cindy is a quantitative analyst with experience working for financial institutions such as Bank of America Merrill Lynch, Morgan Stanley, and Ping An Securities. She has an MS in Computational Finance from Carnegie Mellon University.



Arpan Chakraborty
INSTRUCTOR

Arpan is a computer scientist with a PhD from North Carolina State University. He teaches at Georgia Tech (within the Masters in Computer Science program), and is a coauthor of the book Practical Graph Mining with R.

Top Student Reviews

4.6



Eduardo P.



I loved the program. The first 3 projects were very basic, but everything after project 4 was great. You get introduced to alpha research, portfolio optimization and...

Hsin-Wen C.



I received a lot of great advice from Udacity reviewers which I haven't arranged a time to continue to organize project portfolio video demo with the reviews. And I...

Rodolfo L.



So far so good. The only thing that I believe is missing compared to other programs and my own experience learning online is a clear schedule path. Even though I g...

Thomas B.



The program is easy to follow, I like it so far. It would be nice to have a notebook template that could be exported to python modules that we can view / import in...

Jelle B.

I've signed up for the nanodegree after going through the free 'intro to machine learning' course. This got me excited about the Udacity courses. So far I'm very enthusiastic...

Rodrigo M.

This is being a very intense and interesting experience. I'm recapping statistics lessons from decades ago, and learning a myriad of new subjects, all of them very...

NEXT →**GET STARTED WITH**

AI for Trading

LEARN

Learn the basics of quantitative analysis, and work on real-world projects from trading strategies to portfolio optimization.

AVERAGE TIME

On average, successful students take 6 months to complete this program.

BENEFITS INCLUDE

- Real-world projects from industry experts
- Technical mentor support
- Career services

6 MONTHS ACCESS

~~₹116514~~

₹29129 ₹4855 per month

75% OFF COUPON APPLIED

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Start learning today! Switch to the monthly price afterwards if more time is needed.

PAY AS YOU GO

~~₹22849~~

₹5713 per month

75% OFF COUPON APPLIED

[ENROLL NOW](#)

Start learning today! Get maximum flexibility to learn at your own pace.