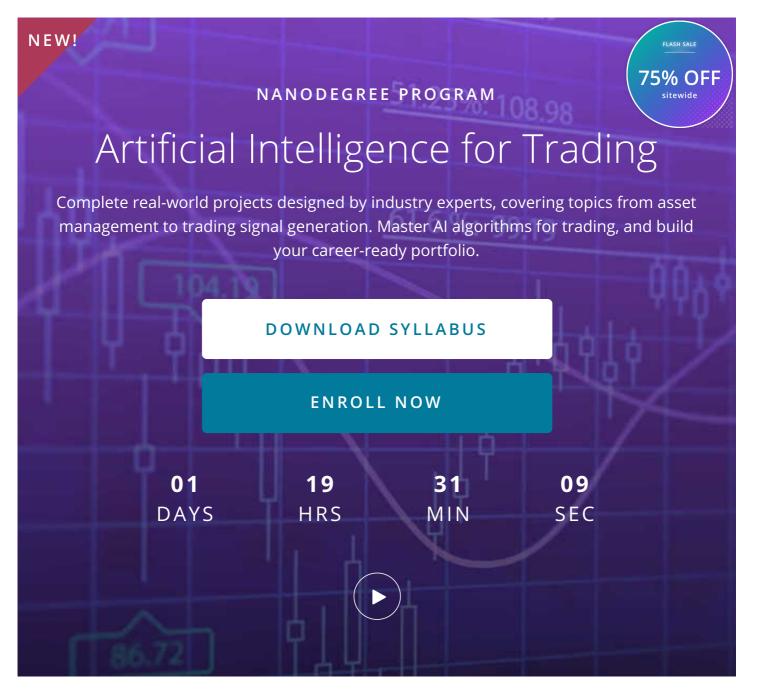
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ESTIMATED TIME 6 Months At 10 hrs/week

# Go to Course

enroll by July 14, 2021

Get access to classroom immediately on enrollment

PREREQUISITES https://www.udacity.com/course/ai-for-trading--nd880

## Python & Mathematics

See prerequisites in detail

## BUILT IN PARTNERSHIP WITH

Artificial Intelligence for Trading

## WORLDQUVNT.

# What You Will Learn

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## SYLLABUS

## Quantitative Trading

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

#### **Related Nanodegrees**

## - HIDE DETAILS



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

Artificial Intelligence for Trading optimization to help you advance your career and land a high-paying role.

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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.

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Content co-created with WorldQuant

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STUDENT SERVICES

Technical mentor support



Artificial Intelligence for Trading Student community ΤΜΡΚΟΥΕΟ 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

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** 



### 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 thought 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...





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 →

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## Al for Trading

#### LEARN

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#### AVERAGE TIME

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#### **BENEFITS INCLUDE**

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

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