

**NEW!**

NANODEGREE PROGRAM

FLASH SALE

75% OFF
sitewide

AI Programming with Python

Learn Python, NumPy, pandas, Matplotlib, PyTorch, Calculus, and Linear Algebra—the foundations for building your own neural network.

[DOWNLOAD SYLLABUS](#)[ENROLL NOW](#)**01**
DAYS**21**
HRS**44**
MIN**13**
SEC

ESTIMATED TIME

3 Months

At 10 hrs/week

Go to Course

ENROLL BY

July 14, 2021

Get access to classroom immediately on enrollment

PREREQUISITES

Basic Algebra and Programming Knowledge

[See prerequisites in detail](#)

What You Will Learn

[DOWNLOAD SYLLABUS](#)

Learn AI Fundamentals

Learn the essential foundations of AI: the programming tools, the math, and the key techniques.

[Related Nanodegrees](#)

— [HIDE DETAILS](#)

PREREQUISITE KNOWLEDGE

Formal prerequisites include basic knowledge of algebra, and basic programming in any language. [See detailed requirements.](#)

- **Introduction to Python**

Start coding with Python, drawing upon libraries and automation scripts to solve complex problems quickly.

USE A PRE-TRAINED IMAGE CLASSIFIER TO IDENTIFY DOG BREEDS

- **Jupyter Notebooks, NumPy, Anaconda, pandas, and Matplotlib**

Learn how to use all the key tools for working with data in Python: Jupyter Notebooks, NumPy, Anaconda, pandas, and Matplotlib.

- **Linear Algebra Essentials**

Learn the foundational linear algebra you need for AI success: vectors, linear transformations, and matrices—as well as the linear algebra behind neural networks.

- **Calculus Essentials**

Learn the foundations of calculus to understand how to train a neural network: plotting, derivatives, the chain rule, and more. See how these mathematical skills visually come to life with a neural network example.

- **Neural Networks**

Gain a solid foundation in the hottest fields in AI: neural networks, deep learning, and PyTorch.

CREATE YOUR OWN IMAGE CLASSIFIER

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

Real-world projects



Project reviews



Project feedback from experienced reviewers



STUDENT SERVICES

Technical mentor support

NEW



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

Why Take This Nanodegree Program?

Learning to program with Python, one of the most widely used languages in Artificial Intelligence, is the core of this program. You'll also focus on neural networks—AI's main building blocks. By learning

foundational AI and math skills, you lay the groundwork for advancing your career—whether you're just starting out, or readying for a full-time role.

Learn with the best

Ortal Arel

CURRICULUM LEAD

Ortal Arel has a PhD in Computer Engineering, and has been a professor and researcher in the field of applied cryptography. She has worked on design and analysis of intelligent algorithms for high-speed custom digital architectures.

Luis Serrano

INSTRUCTOR

Luis was formerly a Machine Learning Engineer at Google. He holds a PhD in mathematics from the University of Michigan, and a Postdoctoral Fellowship at the University of Quebec at Montreal.

Top Student Reviews

4.6  (850)

Elie K.



This was a very good program, I learned a lot from it. Now I have a good understanding of AI network and how they are trained and used. and I'm ready to dive a bit deeper,...

Amresh V.



It is a great course for getting started with AI. I would say I found it easy to cope up even when I have a day job. I have experience with Python and maths involved in the...

Niki S.



The program is really good for beginners like me and everything is explained well. The only two things so far I'd want to comment on is that some of the class...

Ibrahim S.



This is my first experience in programming, so it wasn't fun at all when it came to submitting the first projects within given deadline. But after a lot of efforts and will, I...

Manohar S.



This has been a great course to start learning the fundamentals of AI. The content is really good and well thought through. I have found it easy to manage the...

Mohammed J.

So far so good the first videos on python basics was really good and liked having quizzes that involves real world data or cases. I've understood the the image classifier...

NEXT →**GET STARTED WITH**

AI Programming with Python

LEARN

Learn everything you need to start building your own AI applications.

AVERAGE TIME

On average, successful students take 3 months to complete this program.

BENEFITS INCLUDE

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

3 MONTHS ACCESS~~₹58257~~

₹14565 ₹4855 per month

75% OFF COUPON APPLIED

ENROLL NOW

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.

Related Nanodegree Programs