AI Programming with Python Nanodegree Syllabus

Contact Info

While going through the program, if you have questions about anything, you can reach us at . For help from Udacity Mentors and your peers visit the Udacity Classroom.

Nanodegree Program Info

Version: 1.0.0

Length of Program: 46 Days*

** This is a self-paced program and the length is an estimation of total hours the average student may take to complete all required coursework, including lecture and project time. Actual hours may vary.*

Part 1: Introduction to AI Programming

Welcome to the AI programming with python Nanodegree Program! Come and explore the beautiful world of AI.

Part 2: Intro to Python

Learn Python- one of the most widely used programming languages in the industry, particularly in AI.

Part 3: Numpy, Pandas, Matplotlib

Let's focus on library packages for Python, such as : Numpy (which adds support for large data), Pandas (which is used for data manipulation and analysis) And Matplotlib (which is used for data visualization).

Part 4: Linear Algebra Essentials

Learn the basics of the beautiful world of Linear Algebra and why it is such an important mathematical tool in the world of AI.

Part 5: Neural Networks

Acquire a solid foundation in deep learning and neural networks. Learn about techniques for how to improve the training of a neural network, and how to use PyTorch for building deep learning models.

Part 6: Create Your Own Image Classifier

In the second and final project for this course, you'll build a state-of-the-art image classification application.

Project: Create Your Own Image Classifier

In this project, you'll build a Python application that can train an image classifier on a dataset, then predict new images using the trained model.

Part 7: Next Steps!

Congratulations!!!!! You finished your first nanodegree in the School of AI! What are the next steps?

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