

In this lesson, you'll get a short review on the basic linear algebra we'll use in the course and some of the basics of NumPy.

Week 2

We hope you enjoyed your first week! This second week will be one of the faster paced weeks of the Nanodegree program. This week you'll get into deep neural networks; you'll learn how to code a neural network of your own, and finish your first project!

Lesson: Introduction to Neural Networks

In this lesson, you'll get an introduction as to how neural networks work.

Lesson: Implementing Gradient Descent

In this lesson, you'll learn about implementing the optimization technique fundamental to deep learning: gradient descent.

Lesson: Training Neural Networks

In this lesson, you'll expand on the previous two lessons and learn how to train neural networks so that they can be used for regression or classification tasks.

Lesson: GPU Workspaces Demo

In this lesson, you'll get a short explainer on how to use Udacity workspaces, a cloud computing resource where you'll complete many of your projects.

Project: Predicting Bike Sharing Data

In your first project, you'll be predicting future bike ridership based on past data using a multi-layered, feedforward neural network.

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