Welcome to the *UCSD Extension Introduction to Digital Health*. My name is Hobson Lane and I’ll be your guest instructor for this module.

I will also be your primary instructor for *Data Science for Digital Health*, the second course in the certificate.

In this lecture you are going to learn about some of the key topics we will cover in the upcoming course on *Data Science for Digital Health*.

First, we'll talk about what Data Science is.

You'll soon see that a data scientist is more than just a Statistician in Silicon Valley.

I’ll cut through all the hype and help you see the difference between Machine Learning, Neural Networks, Deep Learning, and AI.

In this module you will see how Deep Learning is automating some of the trial and error work of conventional Data Science.

And you will learn about the Data Science tools you need to solve real healthcare problems to improve people’s lives, including your own.

Then you may be able to appreciate all the enthusiasm about Deep Learning and AI and how it’s accelerating progress in healthcare.

You’ll see how and when to use each tool in your Data Science toolbox.

After that overview I'll describe the syllabus for the *Data Science for Digital Health* course.

Then I'll dive into some of the important kernels of knowledge from that syllabus that I think will be valuable life skills, even if you never seek to become a Data Scientist.

And lastly I'll show you how this recently refined understanding of data and statistics is saving thousands of lives each month in the US alone.

Let’s get started!