1 Introduction to TensorFlow FREE

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What is graph-based computation? In this chapter, you'll learn about the engine that powers TensorFlow and what makes it such an attractive choice for data science projects. We will talk about constants and variables, basic operations, such as addition and multiplication, and advanced operations, such as differentiation. By the end of the chapter, you'll know how to construct and solve graph-based computational models.

Constants and variables	50 xp
Defining constants with convenience functions	100 xp
Defining variables	100 xp
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Basic operations	50 xp
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Making predictions with matrix multiplication	100 xp
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Reshaping tensors	100 xp
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Working with image data	100 xp

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