Introduction to the course

- Video: Welcome to Probabilistic Deep Learning with TensorFlow 2 2 min
- **Reading:** About Imperial College & the team 10 min
- Reading: How to be successful in this course 10 min
- **Reading:** Grading policy 10 min
- Reading: Additional readings & helpful references 10 min
- **Discussion Prompt:** Introduce yourself 10 min
- **Pre-Course Survey** 15 min
- Video: Interview with Paige Bailey 7 min
- Video: The TensorFlow **Probability library** 2 min
- Practice Quiz: [Knowledge check] Standard distributions 6 questions

Univariate distributions

Multivariate distributions

The Independent

distribution Welcome to week 1

hours to complete week 1. Trainable distributions

Programming Assignment: No **Naive Bayes and logistic** regression

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How to be successful in this course

Tips for studying online

Having all the freedom to study online is nice, but this might make it difficult to focus and start studying. When learning online, you should become a self-directed learner!

Here are some great tips for you, collected from this blog, on how to be successful in your online class:

- 1. Read the syllabus: all the important information can be found here!
- 2. Plan weekly study times
- 3. Log on to the class at least 3 times a week
- Ask questions
- 5. Make connections with your fellow learners

Requirements

This course uses many of the fundamental concepts of TensorFlow as covered in the first two courses in this Specialization, and applies them to the development of probabilistic deep learning models, using the TensorFlow Probability library. As a learner, you will practice with these concepts and in order to do so you'll find exercises that require different types of interactivity. Alongside video lectures and quizzes, you'll also get to work with Jupyter Notebooks. These are integrated within the course: you don't need any specific hardware or software packages to access these.

If you experience any difficulties whilst working on these exercises, please consult the Discussion Forum as other learners may have posted questions and answers that may help to solve your problem. Alternatively, you can visit the Broadcasting rules

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Samplingeand ថ្ងៃខ្លាំ takes learners about 7.5

Prerequisites

The prerequisite knowledge required in order to be successful