



Introduction to Deep Learning

Course Overview



OVERVIEW

- Hands-on course on Deep learning
- Focus is on implementation
- Will review Deep learning fundamentals
- Based on Python, sklearn, and keras



OVERVIEW

- We will introduce Keras as the main tool for building deep learning (DL) models
- Most efficient python library for Deep learning
- Keras is built on top of TensorFlow
- We will not work with TensorFlow (keras will use it)
- TensorFlow is the most extensive library for machine learning. We use TensorFlow 2.6+



OVERVIEW

- Course evaluation
- All course Items online
(recordings, notes, homework, grades)
- Course Prerequisites
- Textbook
- Homework 1



COURSE EVALUATION

• Assignments	30 %
• Midterm Exam	30 %
• Final Exam	<u>40 %</u>
• Total	100 %

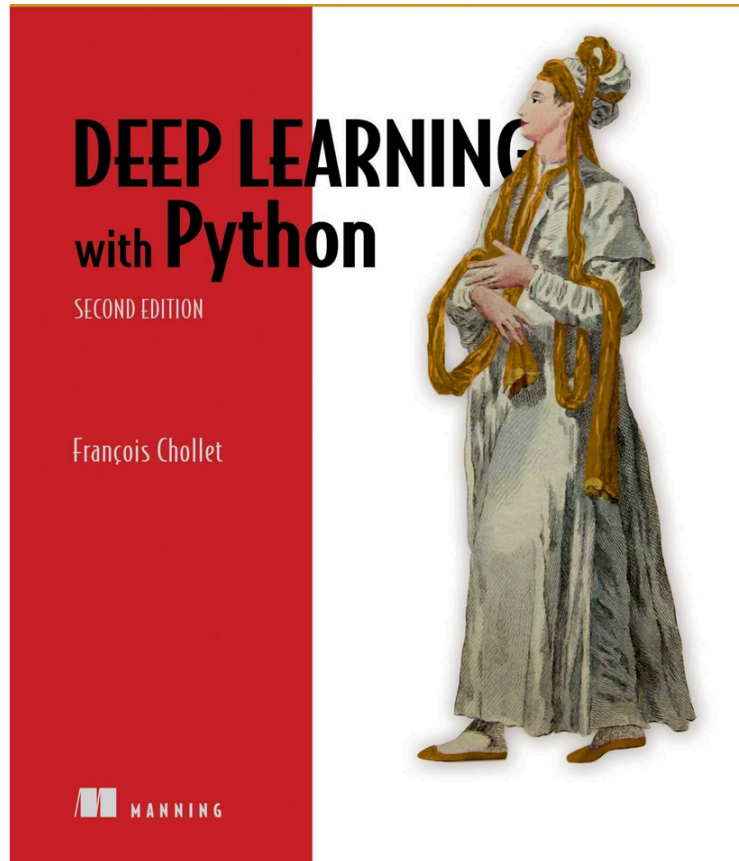


COURSE REQUIREMENTS

- Programming language, Linear algebra, Statistics
- Assignments (take home, submit on BB)
- Some office hours are online
(link is available on BB)



TEXTBOOK



Product details

Publisher : Manning; 2nd edition (December 21, 2021)

Language : English

Paperback : 504 pages

ISBN-10 : 1617296864

ISBN-13 : 978-1617296864



HOMEWORK RULES

- Report must be letter size and in pdf format
- Report should be in portrait orientation
- Report must show Student's Name and USC ID
- Submit on the due date
- No late submission
- One submission per student only
- Lines of code should not be truncated



20223_ise_529_31529: Predictive Analytics

Announcements

Syllabus

Content

Assignments

Contacts

Tools

USC Code of Ethics

Course Home

USC Zoom Pro Meeting

Course Management

Announcements

Create Announcement

New announcements appear below this line

Instructor Office hours

Posted on: Friday, August 19, 2022 6:47:46 PM PDT

Cesar Acosta is inviting you to a scheduled Zoom meeting.

Topic: Instructor Office hours

Time: Aug 24, 2022 04:00 PM Pacific Time (US and Canada)

Every week on Wed, until Nov 16, 2022, 13 occurrence(s)

Aug 24, 2022 04:00 PM

Aug 31, 2022 04:00 PM

Sep 7, 2022 04:00 PM

Sep 14, 2022 04:00 PM

Sep 21, 2022 04:00 PM

Posted by: Cesar Alfonso Jaime Acosta-Mejia

Posted to: 20223_ise_529_31529: Predictive Analytics



CONTACT INFO

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University of Southern California

Department of Industrial and Systems Engineering

GER 216

Emails should include your USC ID and the Course name



INSTRUCTOR OFFICE HOURS

- July 17 Monday via zoom
- July 24 Monday 4 p.m. GER 216 - before E1
- Aug 1 (before HW3) via zoom
- Aug 7-8 (before final exam) via zoom



CLASS SESSIONS

- July 3 online via zoom
- July 5 recorded via zoom
- July 17,19 KAP 145
- July 24 KAP 145
- July 26 recorded via zoom
- All other sessions online via zoom