25. Oktober

OPENCAMPUS.sh

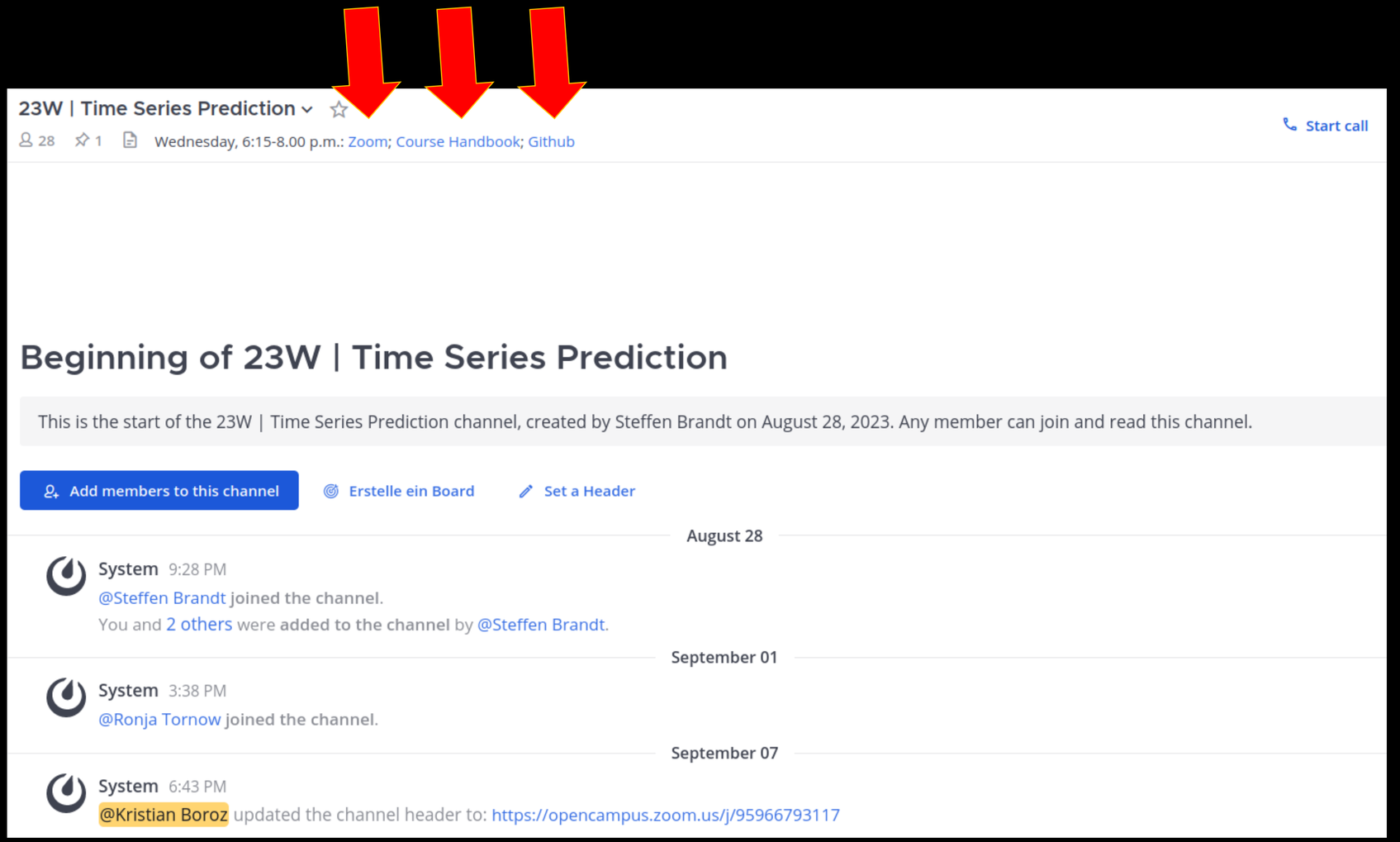
Time Series Prediction

GENERAL INTRODUCTION

- Personal Introduction
- Organizational Matters
- Introductory Discussion
- Course Projects

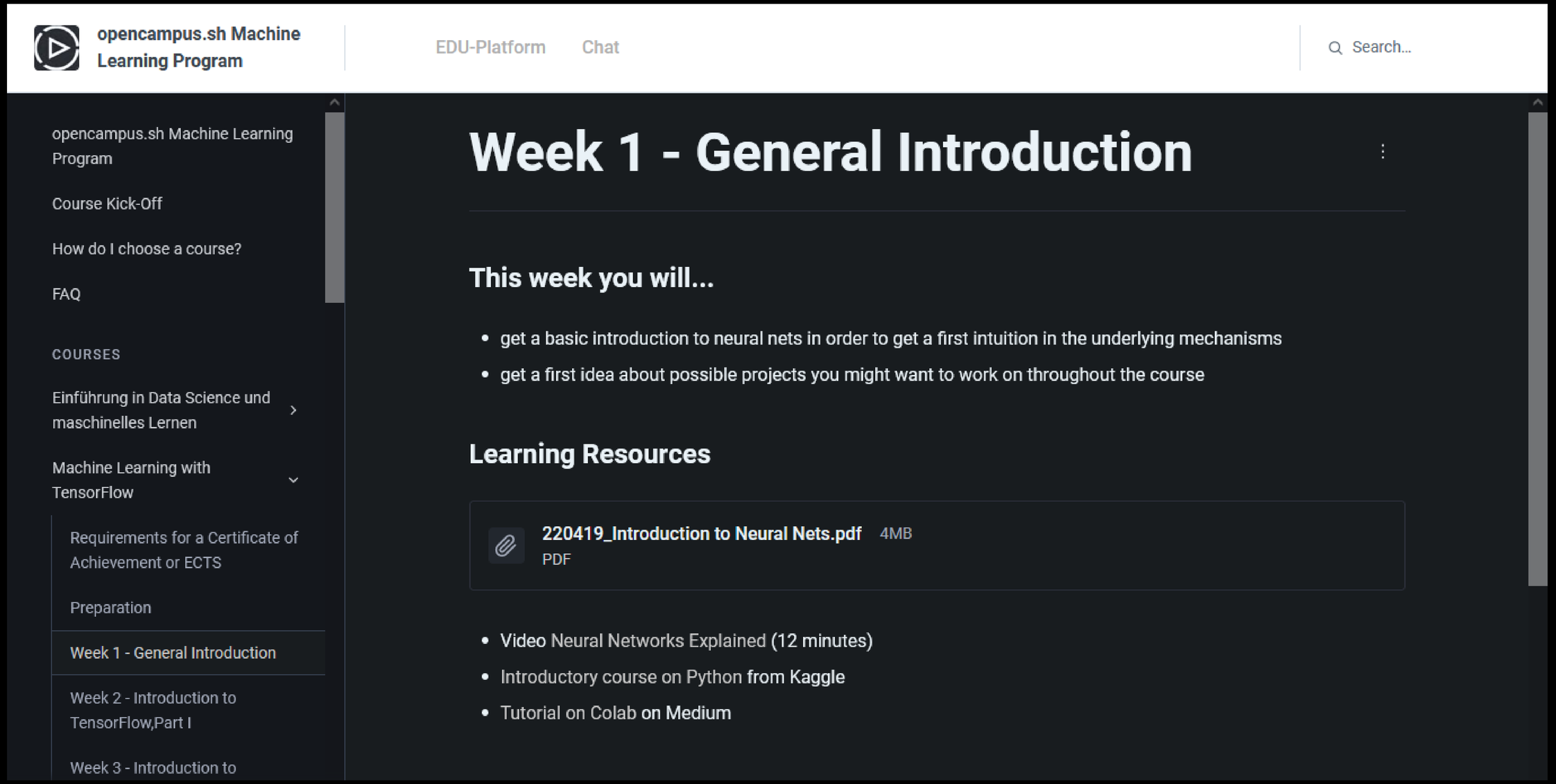
PERSONAL INTRODUCTION

CHAT

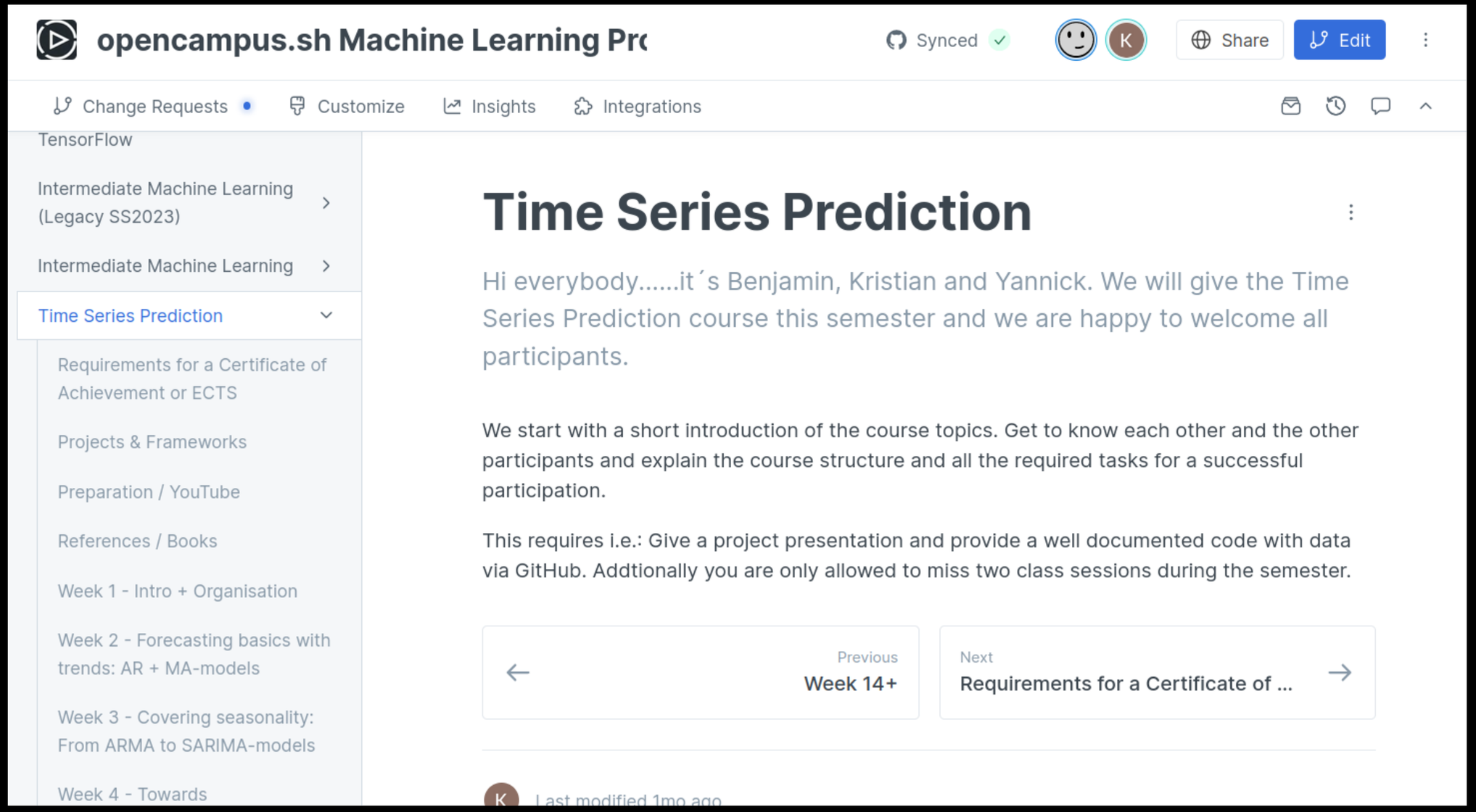


- Please, ask questions to us in the chat

COURSE HANDBOOK



COURSE HANDBOOK



ORGANIZATIONAL MATTERS

- **Complete your profile in the Mattermost chat with your full name and a photo.**
- **Please write us if you will not go on with the course!**

ATTENDANCE REGISTRATION

In Presence:

- Scan the QR-Code if you participate in presence

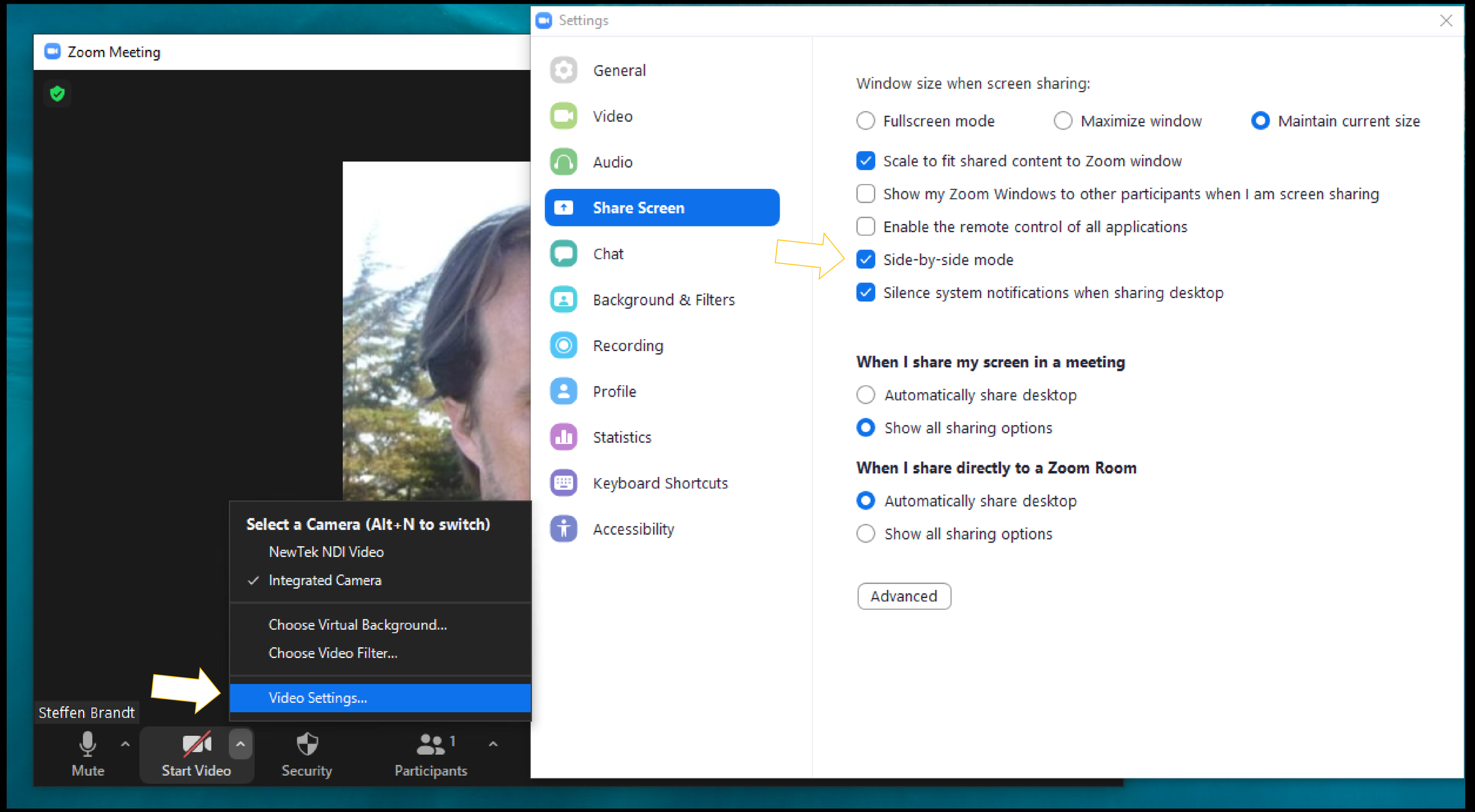
Online:

- **Use your full names in the zoom meetings!**
- **Only counts as attended with camera on.**

ZOOM

- Try the different viewing modes:
  - Gallery View/ Active Speaker
  - Split Screen/ Full Screen Mode

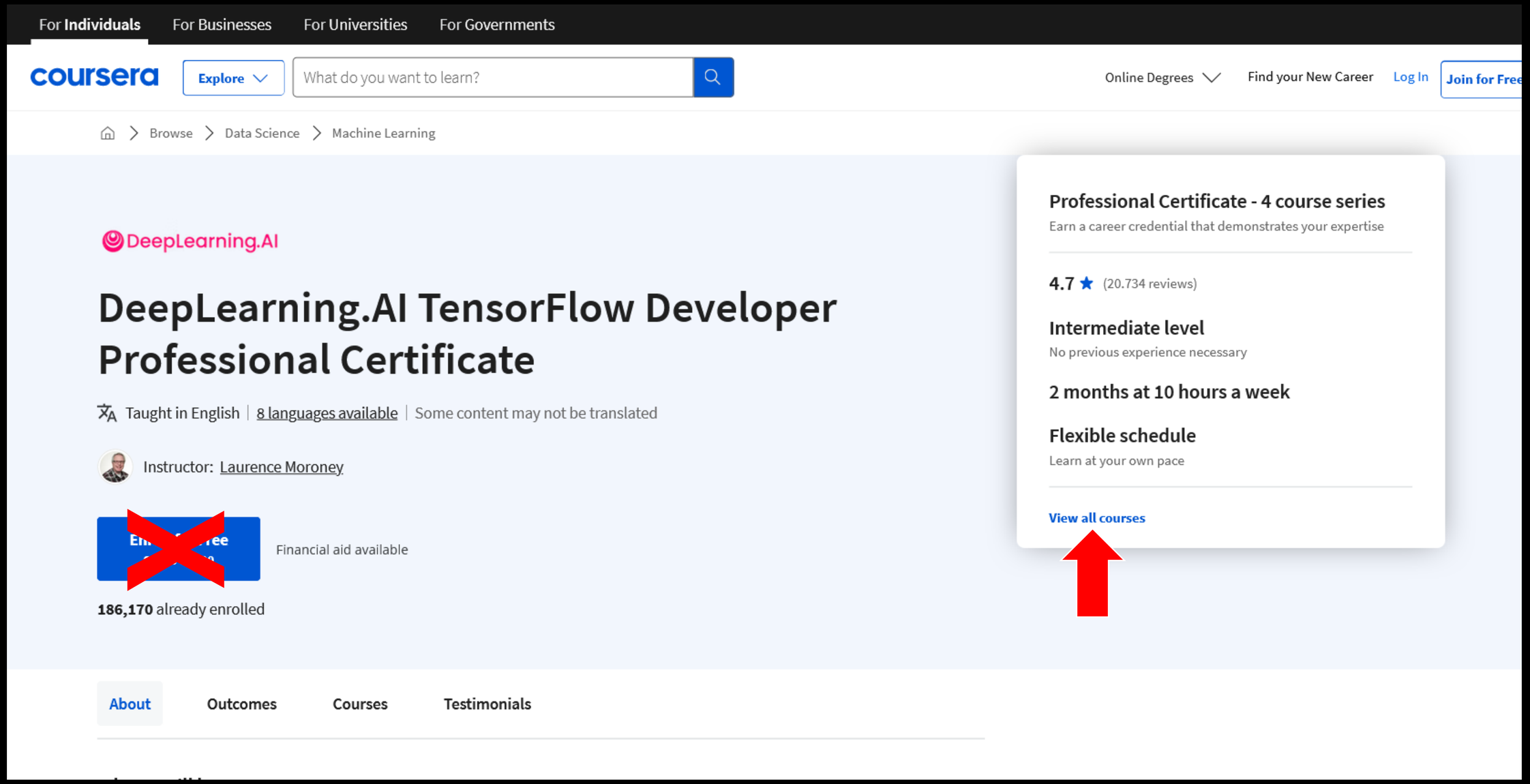
- Maybe watch this video to get an idea: https://www.youtube.com/watch?v=v3IPAbpVjd4


Zoom Meeting
Select a Camera (Alt+N to switch)
NewTek NDI Video
Integrated Camera
Choose Virtual Background...
Choose Video Filter...
Video Settings...
Steffen Brandt
Mute
Start Video
Security
Participants
1
Settings
General
Video
Audio
Share Screen
Chat
Background & Filters
Recording
Profile
Statistics
Keyboard Shortcuts
Accessibility
Window size when screen sharing:
Fullscreen mode
Maximize window
Maintain current size
Scale to fit shared content to Zoom window
Show my Zoom Windows to other participants when I am screen sharing
Enable the remote control of all applications
Side-by-side mode
Silence system notifications when sharing desktop
When I share my screen in a meeting
Automatically share desktop
Show all sharing options
When I share directly to a Zoom Room
Automatically share desktop
Show all sharing options
Advanced

25.10.2023	18:15	20:00	Intro + Organisation	Zoom-Link x		
01.11.2023	18:15	20:00	Forecasting basics with trends: AR + MA-models	Zoom-Link x		
08.11.2023	18:15	20:00	Covering seasonality: From ARMA to SARIMA-moc	Zoom-Link x		
15.11.2023	18:15	20:00	Towards multidimensional settings: SARIMAX + VA	Zoom-Link x		
22.11.2023	18:15	20:00	Extended model classes: GARCH + DCC-GARCH + (	Zoom-Link x		
29.11.2023	18:15	20:00	Spectral Analysis of Time Series	Zoom-Link x		
06.12.2023	18:15	20:00	Milestone Meeting	Zoom-Link x		
13.12.2023	18:15	20:00	Supervised Learning I: Trees + Random Forests +	Zoom-Link x		
20.12.2023	18:15	20:00	Supervised Learning II: XGBoost + LightGBM + Ca	Zoom-Link x		
03.01.2024	18:15	20:00	Neural Networks for Sequences: RNNs + GRUs + L	Zoom-Link x		
10.01.2024	18:15	20:00	Prophet(Facebook) + DeepAR/DeepGPVAR(Amazc	Zoom-Link x		
17.01.2024	18:15	20:00	Transformers + TFTs	Zoom-Link x		
24.01.2024	18:15	20:00	NBEATS(s) + NHITS(x)	Zoom-Link x		
31.01.2024	18:15	20:00	Presentations	Zoom-Link x		

COURSERA REGISTRATION

DO NOT SIGN UP FOR THE SPECIALIZATION



CLICK ON THE INDIVIDUAL COURSE

Professional Certificate - 4 course series

TensorFlow is one of the most in-demand and popular open-source deep learning frameworks available today. The DeepLearning.AI TensorFlow Developer Professional Certificate program teaches you applied machine learning skills with TensorFlow so you can build and train powerful models.

Read more

Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

Course details

Course 1 • 17 hours • **4.8** ★ (18.883 ratings)

What you'll learn

- ✓ Learn best practices for using TensorFlow, a popular open-source machine learning framework
- ✓ Build a basic neural network in TensorFlow
- ✓ Train a neural network for a computer vision application
- ✓ Understand how to use convolutions to improve your neural network

Skills you'll gain

Computer Vision | Tensorflow | Machine Learning

Convolutional Neural Networks in TensorFlow

Course 2 • 16 hours • **4.7** ★ (7.912 ratings)

Instructor

Laurence Moroney
DeepLearning.AI
15 Courses • 456,481 learners

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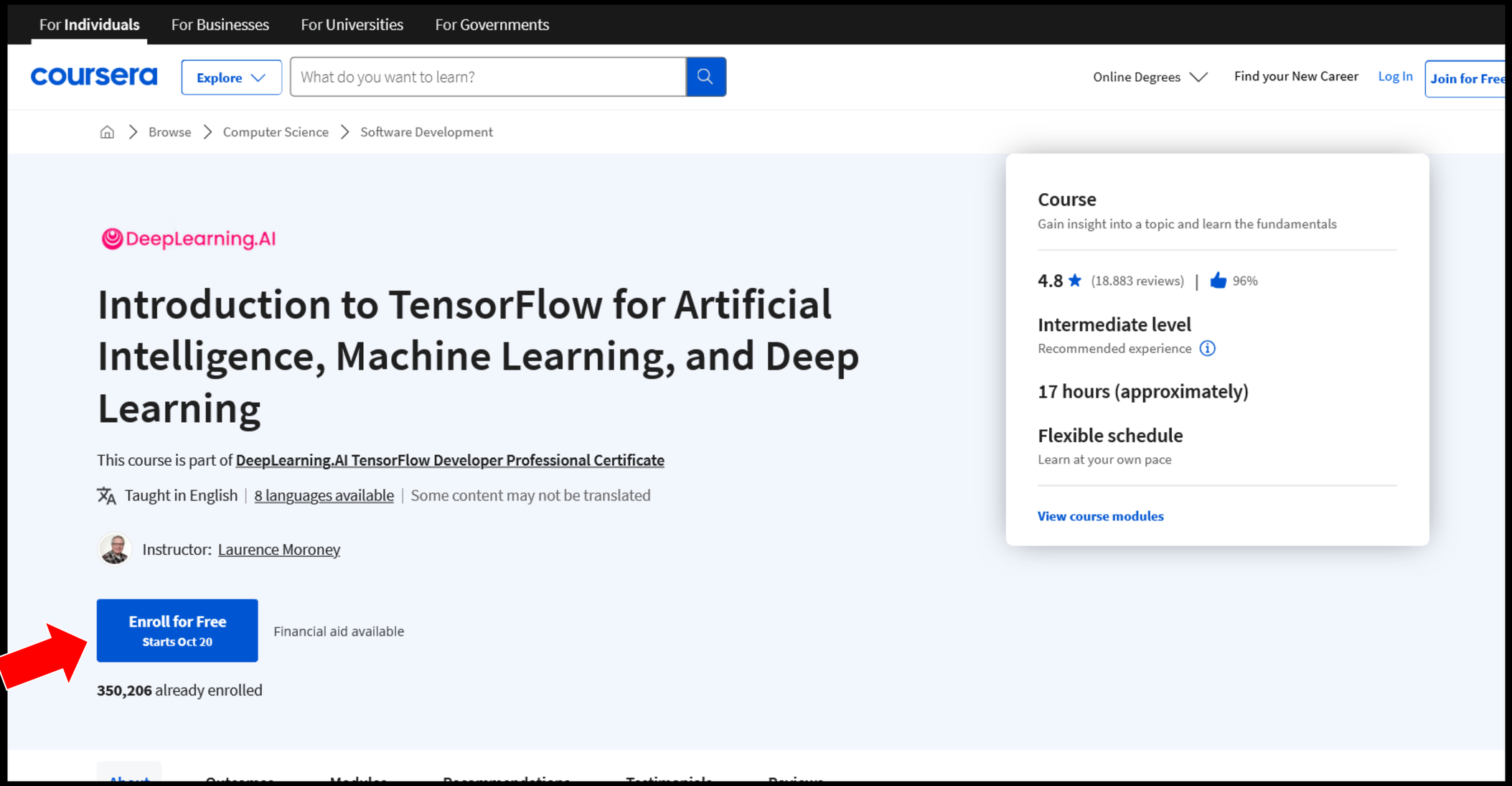
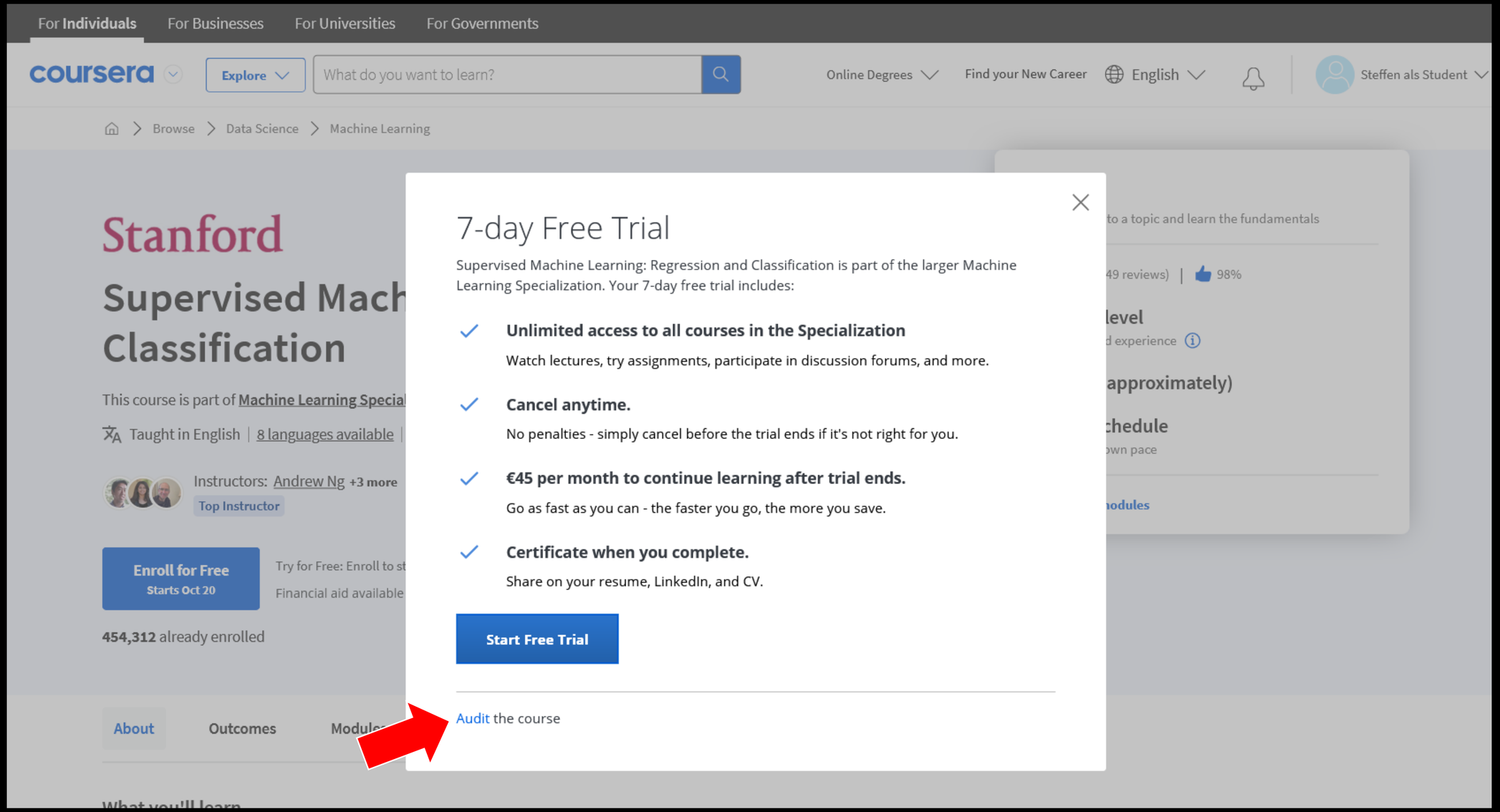
Learn more

ENROLL FOR INDIVIDUAL COURSE



SELECT AUDIT MODUS



EXERCISES

- Each week two to four of you will present the exercises given in the course handbook

- Each of you presents at least once

EXERCISES:
WHO WILL PRESENT NEXT WEEK?

PROJECTS

Option 1:

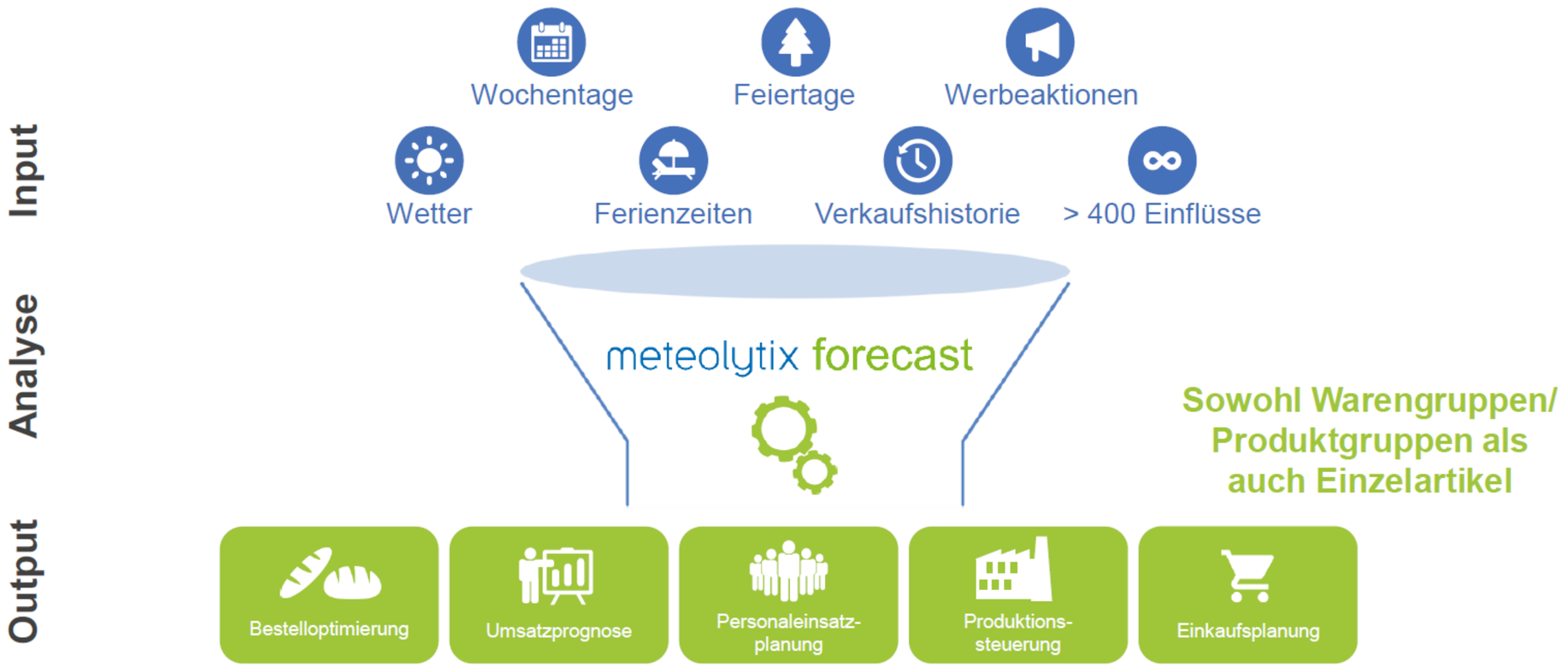
Bring your own idea and data

Option 2:

Do the default project

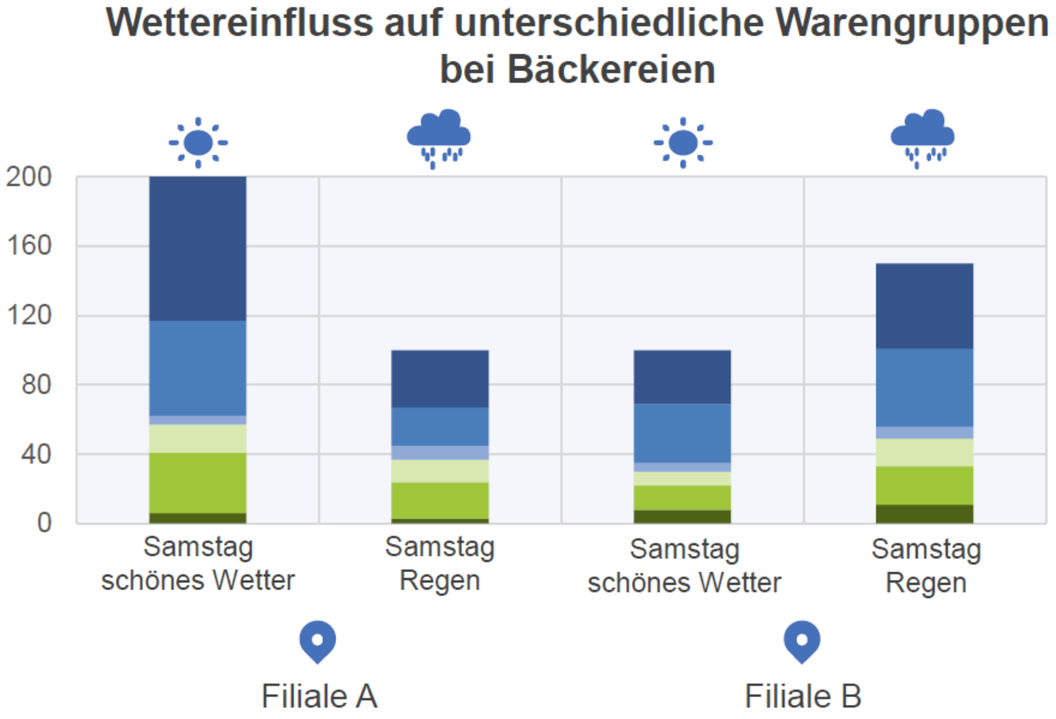
meteolytix forecast analysiert die Datenzusammenhänge von mehr als 400 Einflussfaktoren und liefert Absatzprognosen für viele Einsatzfelder.

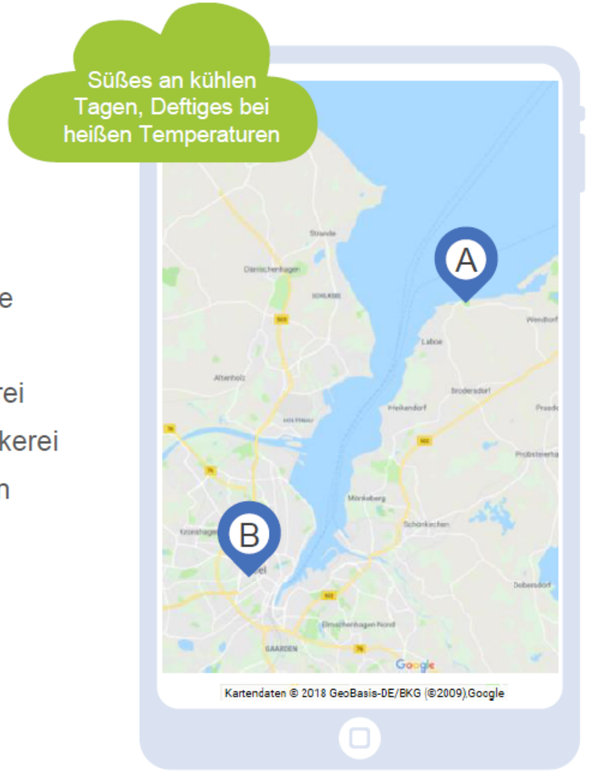
WAS WIR MACHEN



Die Stärke des Wettereffekts variiert von Ort zu Ort und wird jeweils filialindividuell berücksichtigt.

WAS WIR MACHEN





DEVELOPMENT ENVIRONMENTS