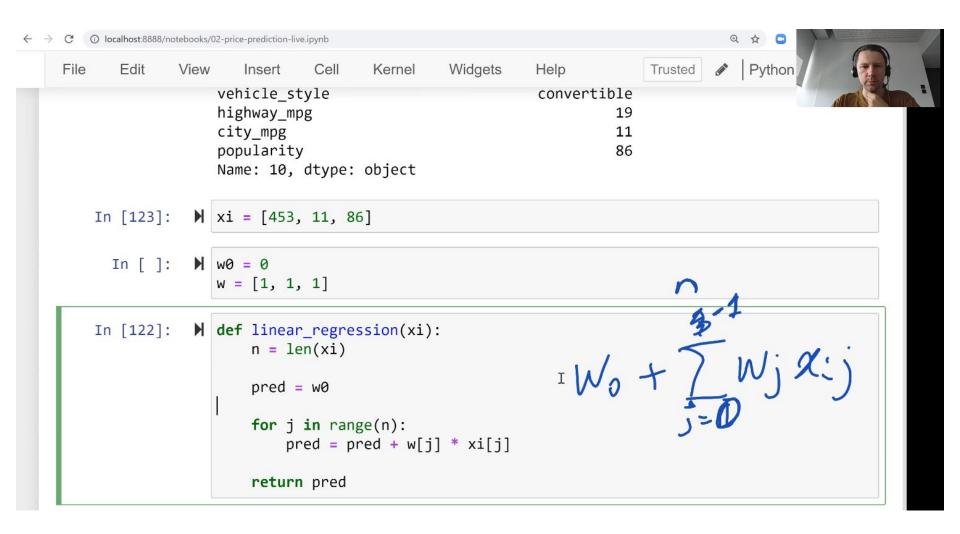
#### DataTalks.Club

# Machine Learning Zoomcamp

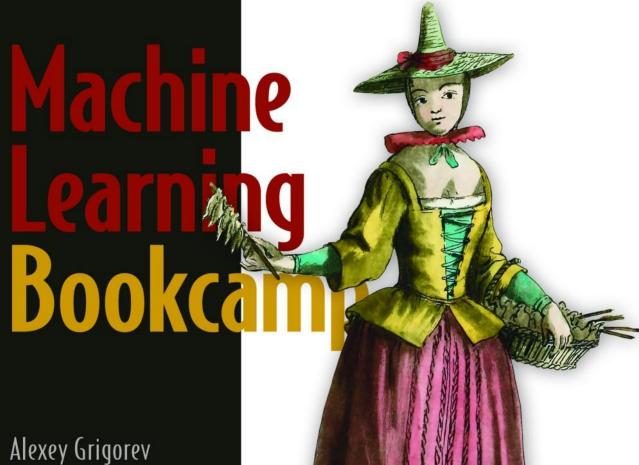
We



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Build a portfolio of real-life projects





mlbookcamp.com

## Team



Alexey Grigorev Instructor



Dmitry Muzalevskiy Teaching Assistant



Wendy Mak Teaching Assistant

### Is it for me?

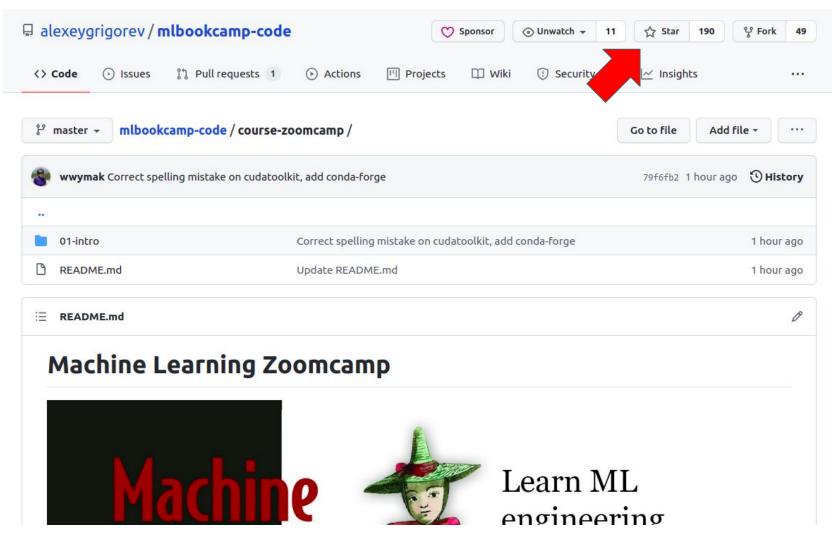
#### Yes, if

- You know how to program
- You know a bit of Python or can learn it quickly
- You feel comfortable with command line

#### Not required:

Previous experience with ML

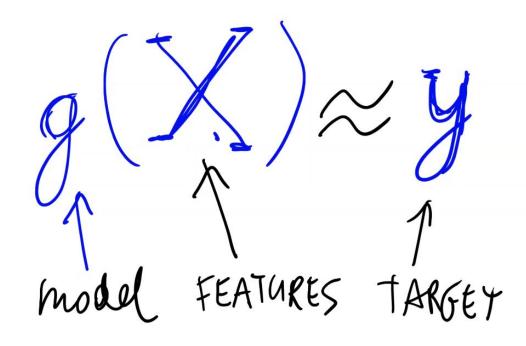
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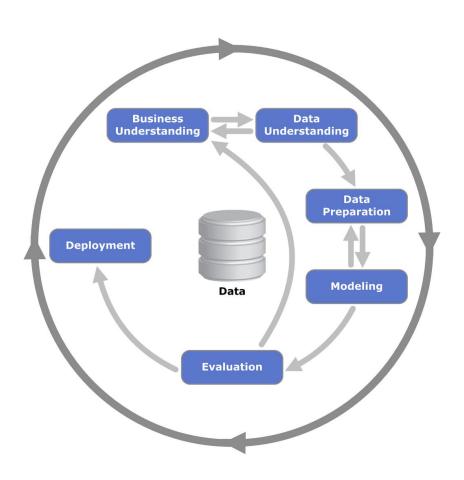
https://github.com/alexeygrigorev/mlbookcamp-code/tree/master/chapter-09-kubeflow

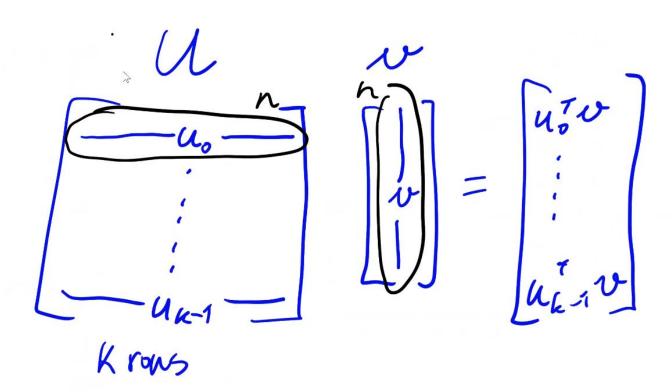
# Course plan

## **Session 1: Introduction**

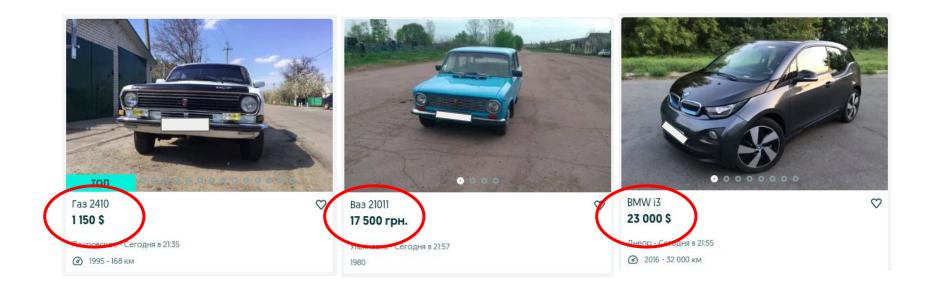


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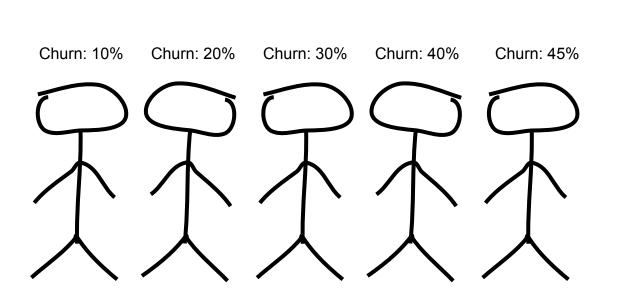




## Session 2: Car Price Prediction



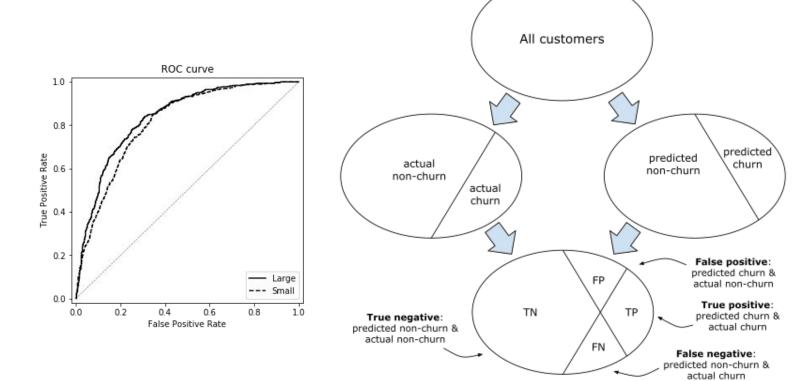
# Session 3: Churn prediction



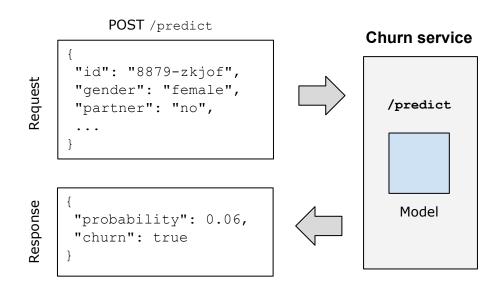




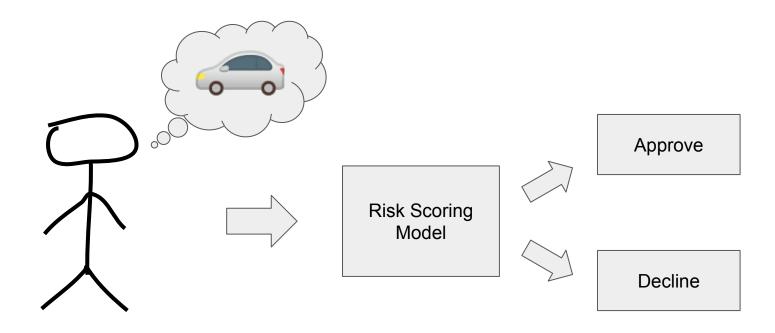
## **Session 4: Evaluation**



# Session 5: Deployment

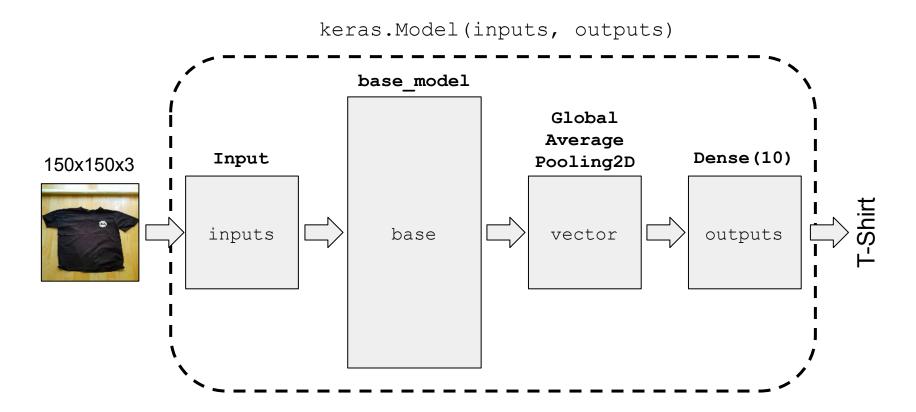


## Session 6: Credit Risk

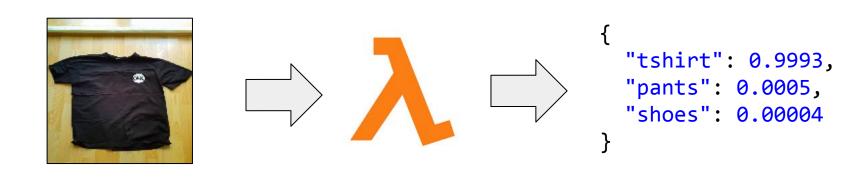


# Midterm project

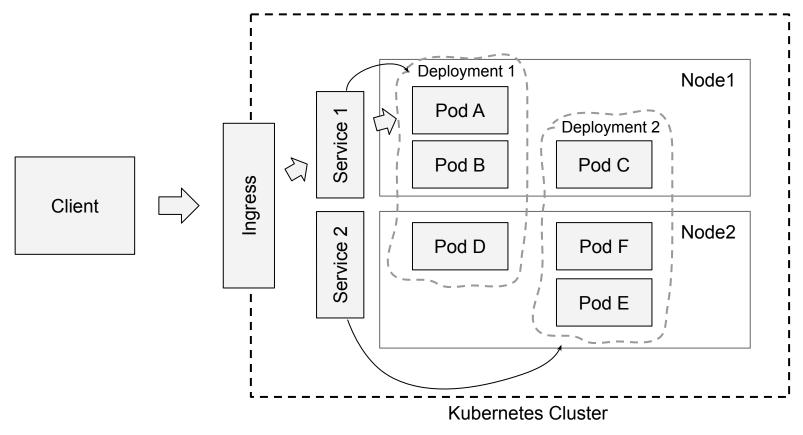
# Session 8: Image Classification



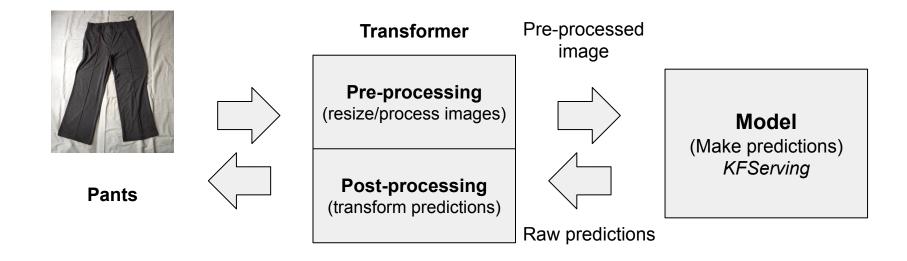
# Session 9: Serverless Deep Learning



## Session 10: Kubernetes



## Session 11: Kubeflow



# Capstone Project

# Article

# Course logistics

# Logistics

- First session live on YouTube
- Other sessions live in Zoom \*
- Everything will be recorded
- On Mondays
  - We work through the homework together
  - Answer questions
- To get a certificate, you need to complete two projects
- You can join the course at any time

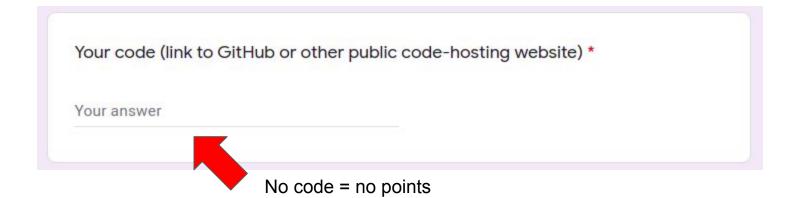
<sup>\*</sup> depends on the number of participants

### Leaderboard

- For each homework question you get 1 pt
- Projects 15 pt
- Article 20 pt
- The leaderboard with top 100 participants will be published on the course github (without scores)

Your email (the same you used for signing up) * Your answer	Should be the same	everywhere
Question 1: Version of NumPy *  Your answer		
Question 2: Version of Pandas *  Your answer		
Question 3: The average price of BMW *		
<ul><li>85255.55</li><li>61546.76</li></ul>		
28102.38		

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# Learning in public

Share your progress!

- #learning-challenges in Slack
- LinkedIn
- Twitter

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...



#### Thinam Tamang • 1st

Data Science | Machine Learning | Deep Learning | Practitioner



#### Pay 251 of #300DaysOfData!

Channels and Features :

Channels and Features are largely used interchangeably and refer to the size of the second axis of a weight matrix which is the number of activations per grid cell after a convolution. Channels refer to the input data i.e colors or activations inside the network. Using a stride 2 convolution often increases the number of Features at the same time because the number of activations in the activation map decrease by the factor of 4.

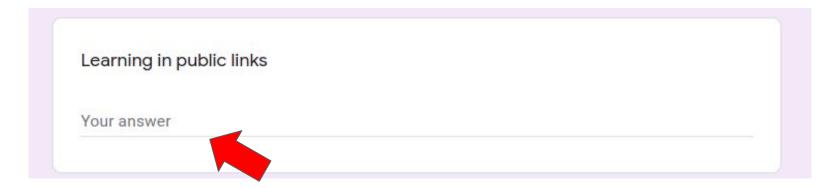
On my Journey of Machine Learning and Deep Learning, I have read and implemented from the book "Deep Learning for Coders with Fastai and PyTorch". Here, I have read about Convolutional Neural Network, Refactoring, Channels and Features, Understanding Convolution Arithmetic, Biases, Receptive Fields, Convolution over RGB Image, Stochastic Gradient Descent and few more topics related to the same from here.

Notebook:



I have presented the implementation of Convolutional Neural Network and Training the Learner using Fastai and PyTorch here in the snapshot. I hope you will gain some insights and work on the same. I hope you will also spend some time learning the topics from the Book mentioned below. Excited about the days ahead !!

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+1 pt for each social link / article

### **₽ 1.3 Supervised Machine Learning**

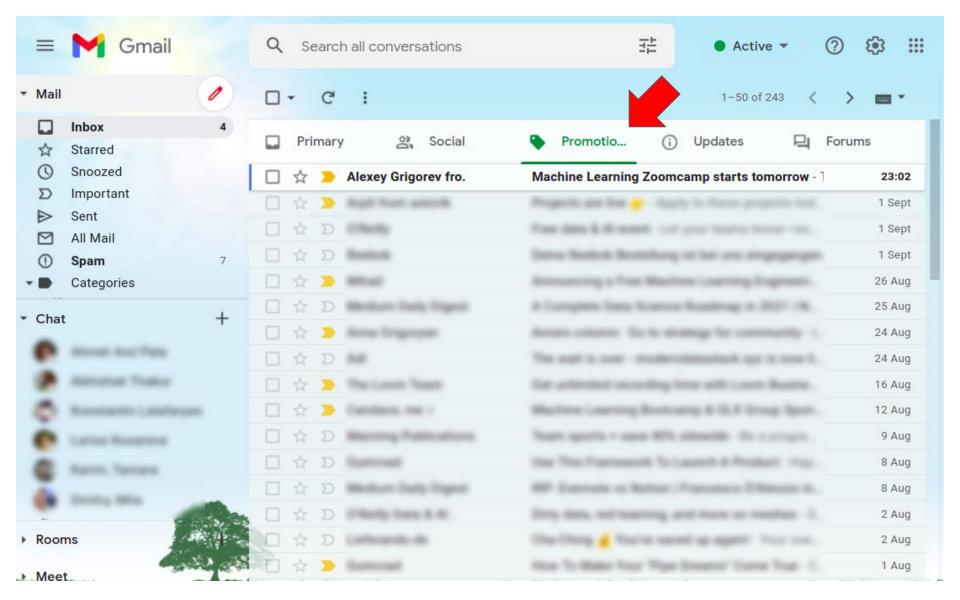
- Video
- Slides

#### **Notes**

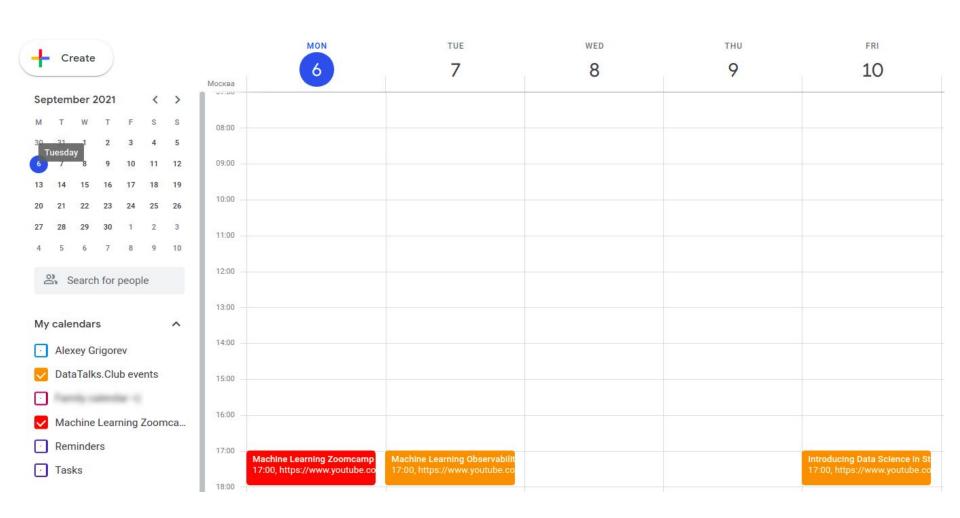


PRs with links to Notion, medium, your github repos, etc are welcome!

- Lesson 1: Introduction to Machine Learning
- Previous: ML vs Rule-Based Systems
- Next: CRISP-DM

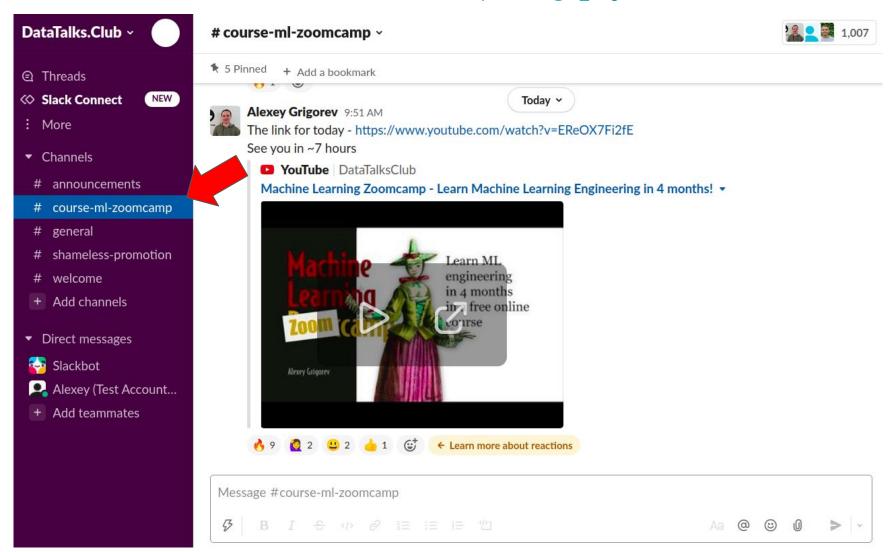


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# DataTalks.Club Slack

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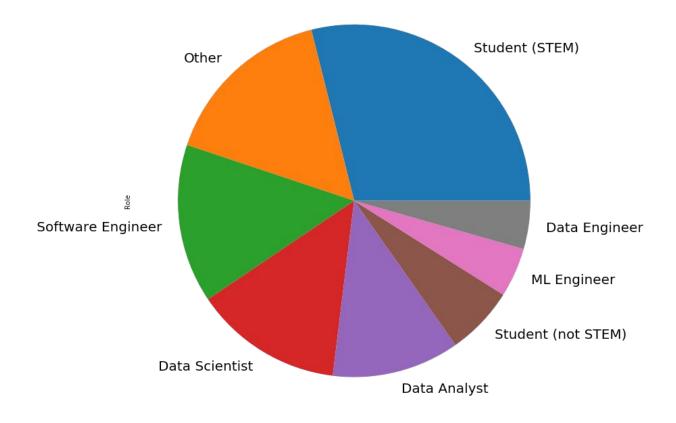
# Joining DataTalks.Club Slack

Demo =)

### DataTalks.Club Guidelines

- Use #course-ml-bookcamp for course questions
- Use threads
- Don't post the same message in multiple channels

# Some stats (6k+ registrations)



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