



香港中文大學(深圳)
The Chinese University of Hong Kong, Shenzhen

数据科学学院
School of Data Science

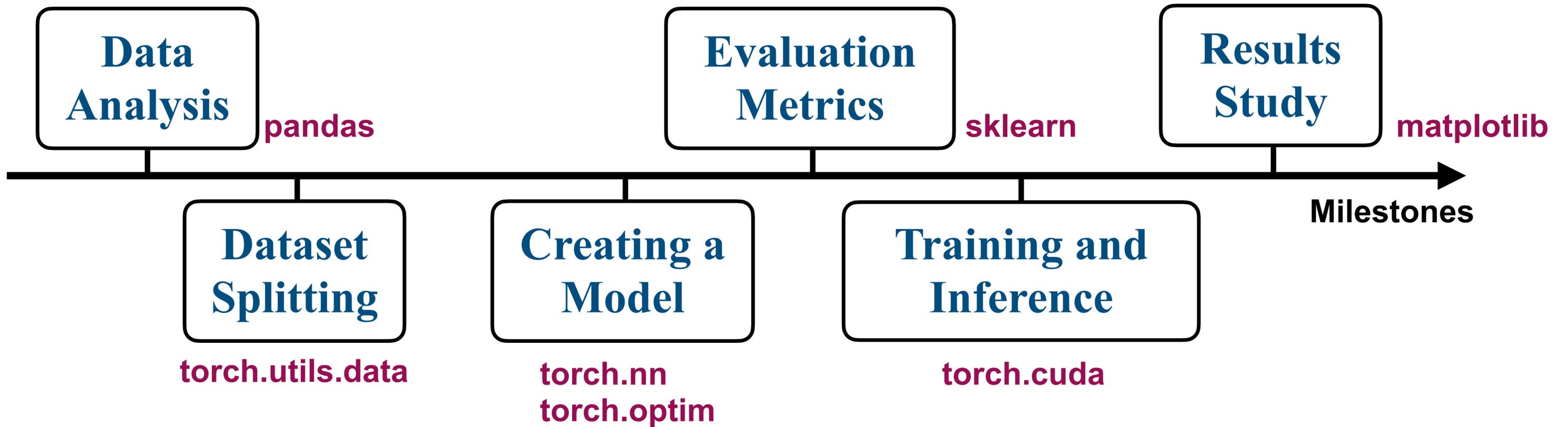
Classifying Names with RNN

Tutorial 1: PyTorch
Xueyao Zhang

CSC3160 / MDS6002, Spring 2023

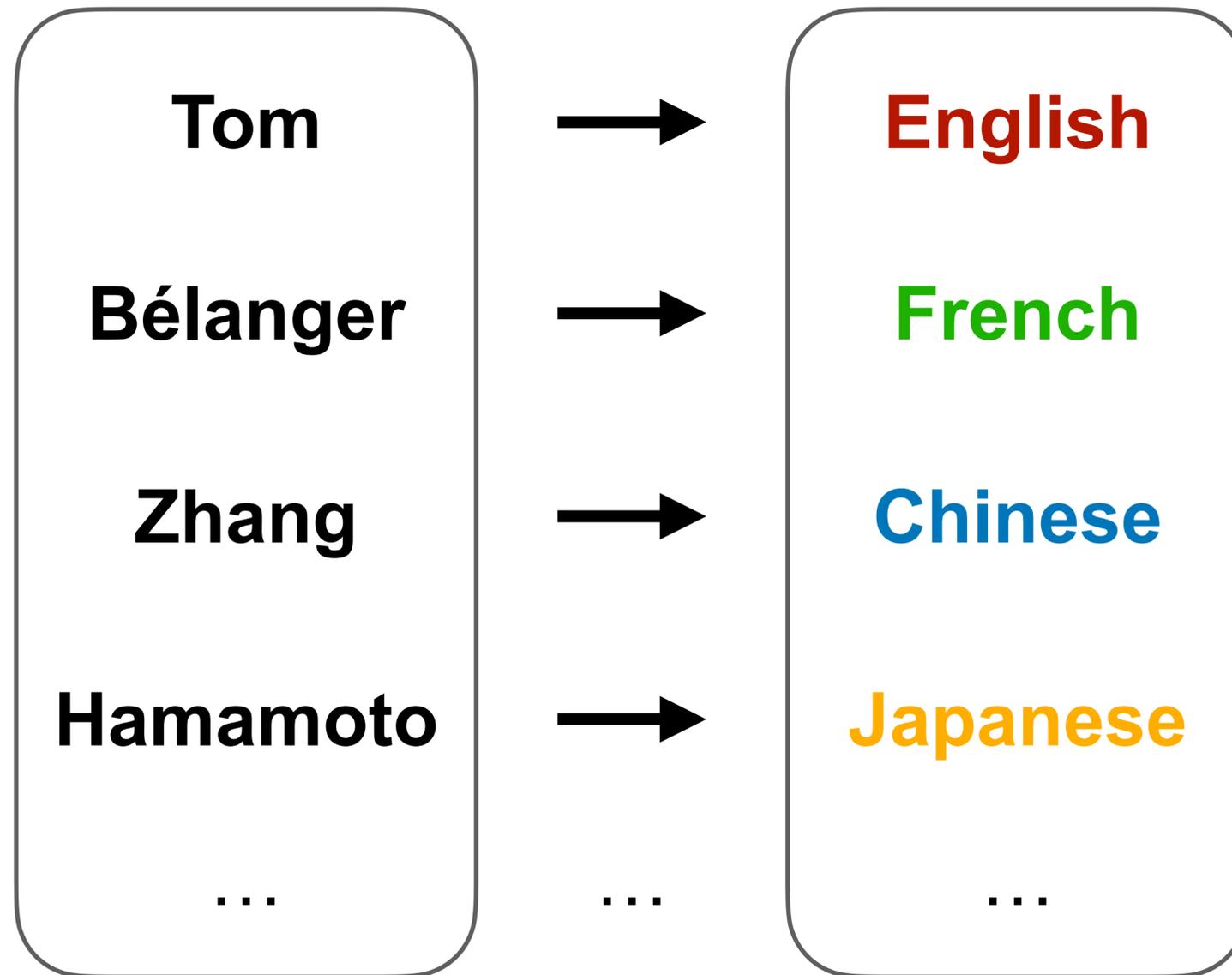
Our goals

- Grasp how to conduct a **machine learning project** with PyTorch



Task: Name Classification

- Predict which language the given name is from.

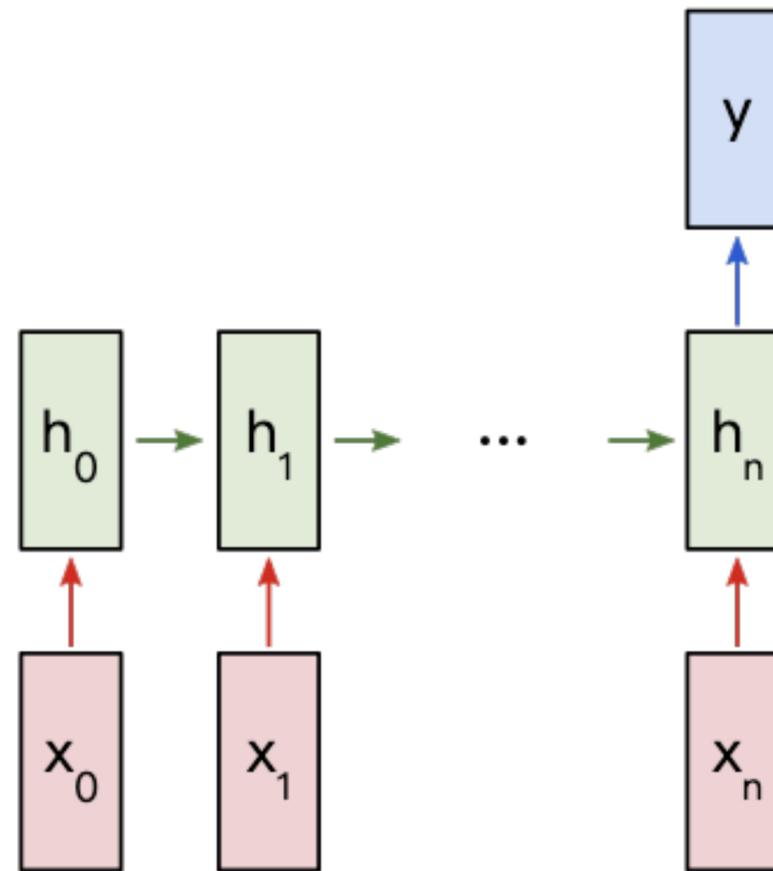


Dataset: **20050** names which are from **18** languages

Model: Character-level RNN

- **Character-level RNN**

- Here is a brief tutorial of RNN.
- “Character-level” means that every character of the name is considered as a timestamp.



Coding

- See the [colab notebook](#) of this tutorial.

THANKS



香港中文大學(深圳)
The Chinese University of Hong Kong, Shenzhen

数据科学学院
School of Data Science



Xueyao Zhang (张雪遥)

First-year PhD student,
School of Data Science, The Chinese University of Hong Kong, Shenzhen

Email: xueyaozhang@link.cuhk.edu.cn
Homepage: <https://www.zhangxueyao.com/>

Research interest: “AI + Music”, especially on:

- ◆ Singing Voice Synthesis
- ◆ Algorithmic Composition

Hiring: Our team is broadly interested in speech and music-related research. We have open positions for RA, PhD students, and visiting students.