Tech Stack

Programming Language: Python

Why Python

- Most popular programming language for ML
- It is a high level language
- It is a general purpose language
- There is a large library of modules that can be used

Python Drawbacks

- Speed issues
- Hard to reason about speed performance

Please Learn the Basics of Python!

- If you've programmed before, Python is very easy to pick up
- For those who are beginner programmers, you have some catching up to do!
- Here's a good place to get started:
  - https://www.learnpython.org/
- For advanced Python tutorials:
  - https://realpython.com/

Common ML Modules

- **NumPy** (numerical computation)
- **SciPy** (statistics)
- **Pandas** (data analysis)
- **Matplotlib** (data visualization)
- **Scikit-learn** (machine learning)
- **TensorFlow** / **Pytorch** (deep learning)

Version Control: Git

Using Git

- [Introduction to Git](#)
- [Learning Git](#)
- There are many tools that make Git even easier to learn
  - [Github desktop](#)
  - Some IDEs and text editors supports git

Cloud Computing: AWS

Why the Cloud

- Ease of sharing
- Shared environment
- Makes it easier to disseminate help

Why AWS

- Most popular cloud by far
- Amazon has the best customer experiences