CSCE-50103
Full-Stack Deep Learning

Class Overview

Spring 2025

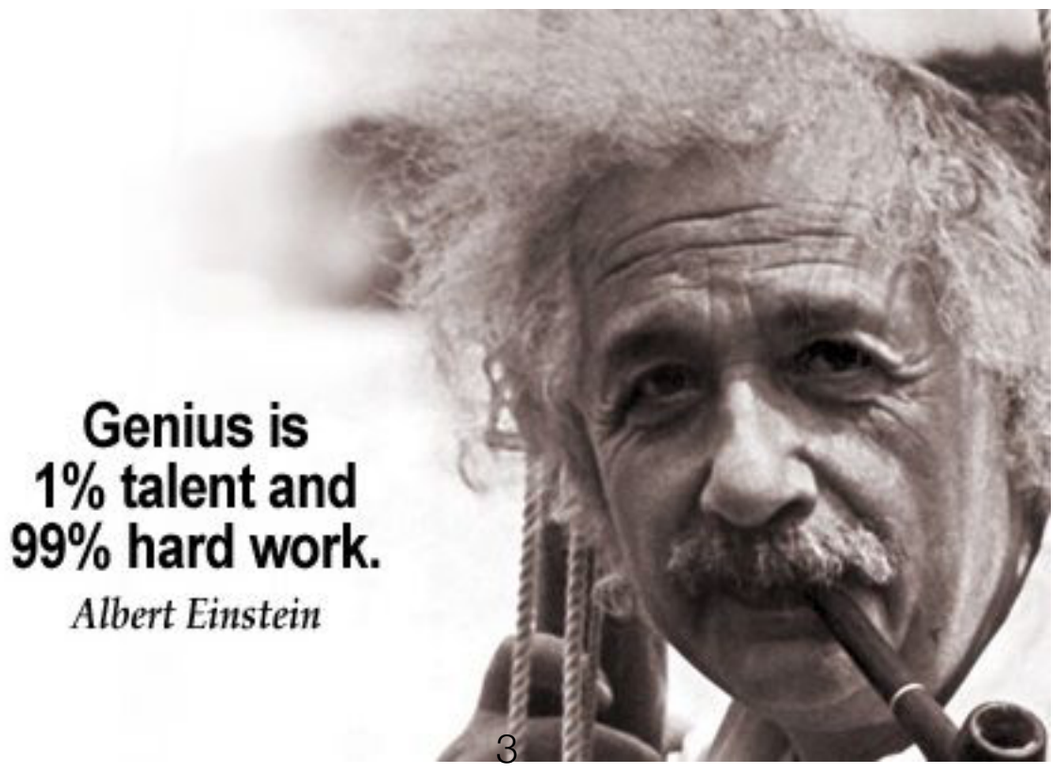
Prof. Khoa Luu
khoaluu@uark.edu

Reading
Textbook - Research Papers

a lot of reading
a lot of questions
a lot of discussion

Assignments - Projects

a lot of programming
hours and hours of programming
days and days of debugging



Class Info

- Course Website:
  https://uark-cviu.github.io/classes/csce50103/

- Homework/Project Submissions: Blackboard

Class Info

- Instructor: **Prof. Khoa Luu**

  Website: https://engineering.uark.edu/directory/profile/uid/khoaluu/name/Khoa+Luu/

  Email: khoaluu@uark.edu

- Co-Instructor: **Dr. Thanh-Dat Truong**

  Website: https://truongthanhdat.github.io/

  Email: tt032@uark.edu

Class Info

- Time: Tuesdays, Thursdays, 9:30 A.M - 10:45 A.M
- Place: JBHT Sr Des/Capstone - Room 0239
- Lab: TBA
- Office hours: Tuesdays, 12:00 P.M - 1:00 P.M
- Office Location: JBHT - Room 521

Course Requirements

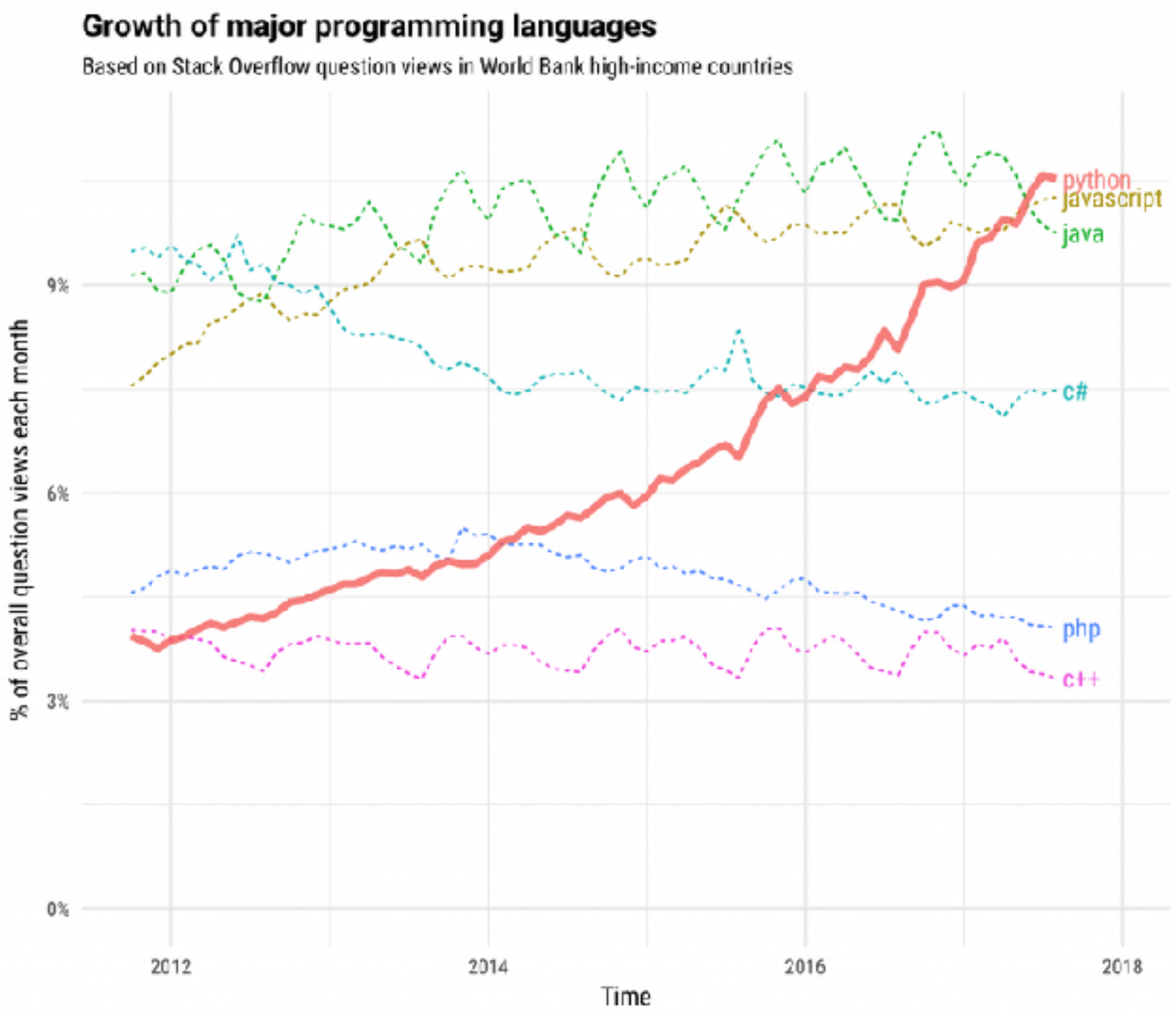
- Four (individual/group) Assignments
- Midterm Exam
- Final Project (Presentation + Program + Report)

Programming Languages

Any, but prefer:

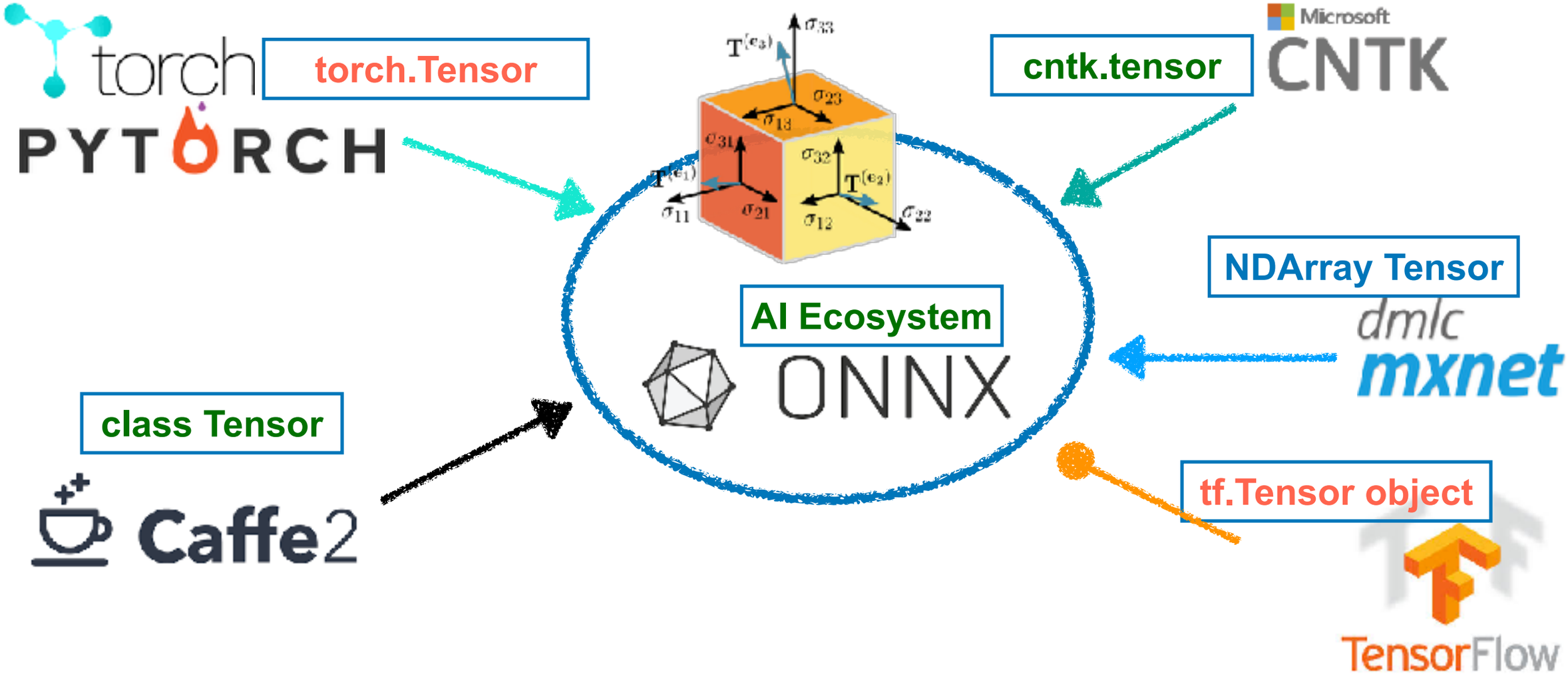
- Python (Highly recommend)
- C/C++ (OpenCV)
- Matlab
- Java

Programming Languages



Deep Learning Framework - Python

- Most recent Deep Learning Frameworks (Computer Vision and Image Processing) fully support Python



Sarah Bird, Dmytro Dzhulgakov. "Announcing ONNX 1.0 – An open ecosystem for AI." *Microsoft, Facebook, Amazon*, December 2017.

Grading

- Class Participation: 2%
- Assignments: 40%
- Midterm Exam: 18%
- Final Project: 40%

Approach

- Grading based on absolute scale
- Getting an A v.s mastering the materials
- Take advantage of extra credits
- Build your resume with meaningful project experience

Late Days

- 5 late days in total
- 3 days per assignment/project maximum use
- Use them wisely (save them for final project!)

Course Materials

- Check the website frequently
- Update forum discussions (Be active)
- Use office hours