

CS230: Lecture 10

Class wrap-up

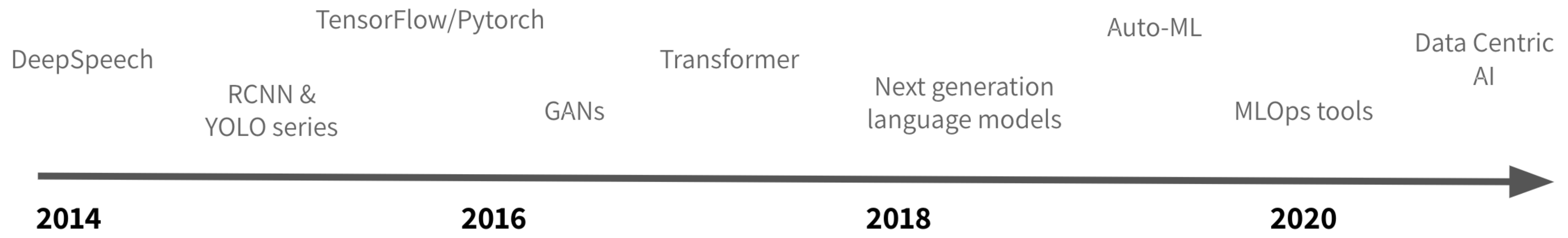
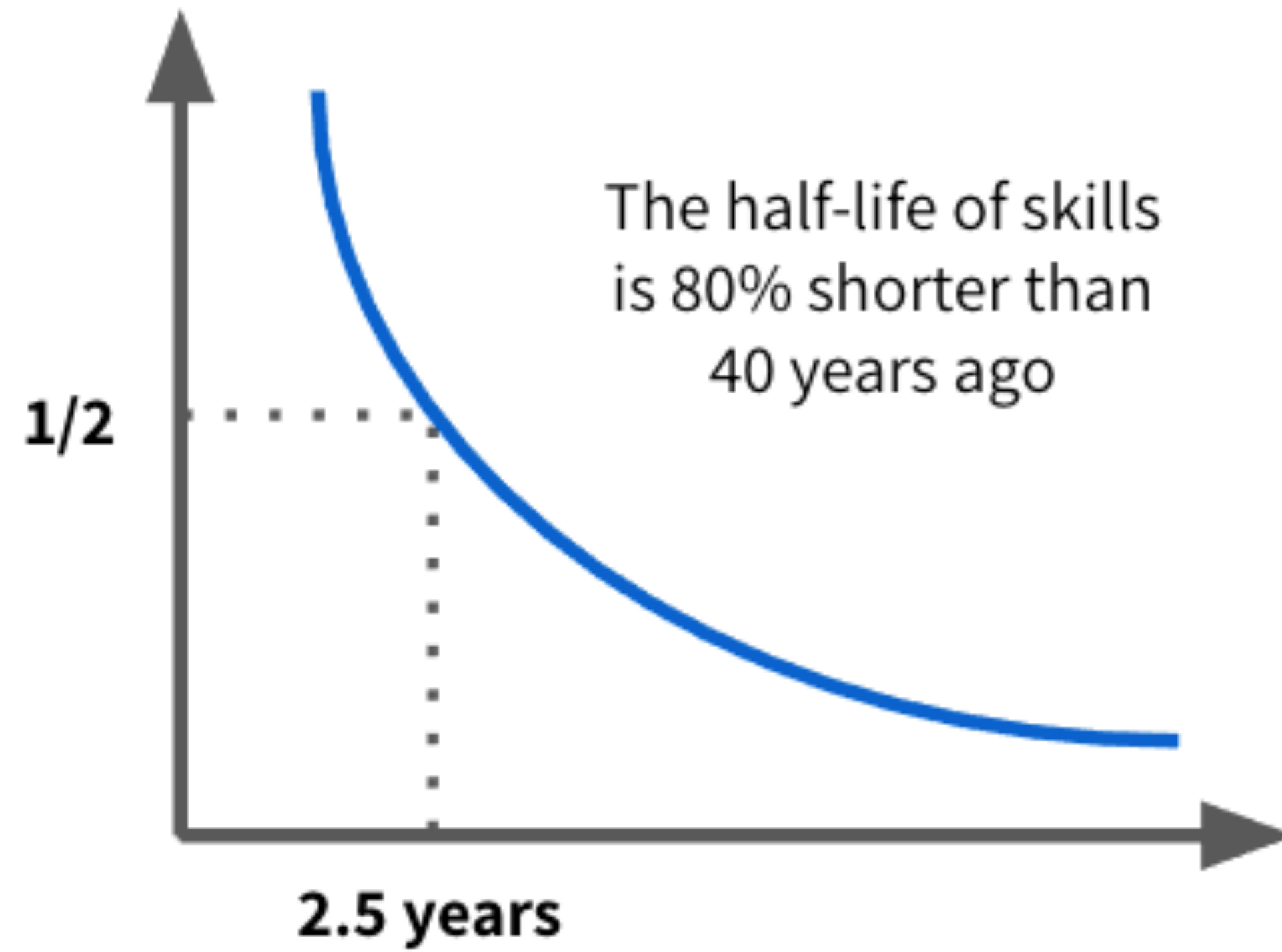
Andrew Ng, Kian Katanforoosh

I. Continuous Career Development

II. Choosing an AI Career

III. What's next after CS230?

IV. Closing remarks



How to keep up with the latest and greatest?

Precision Upskilling Cycle



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Software as a job category is mature.

AI as a job category is maturing as we speak.

**Backend
Engineer**

**Frontend
Engineer**

**Deployment
Engineer**

**DevOps
Engineer**

**Site Reliability
Engineer**

**QA
Engineer**

**Mobile
Engineer**




















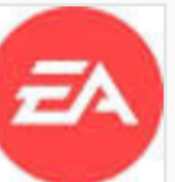



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Career pathways in software are better understood than in AI.

Thus, companies write fuzzy AI job descriptions with confusing titles.

Mum: You're applying to a machine learning job?

Me: Trying to...

 Machine Learning Engineer Snorkel AI Palo Alto, CA via Lever	 Data Science Engineering, Machine Learning Salesforce Palo Alto, CA via Glassdoor	 Data Scientist / Machine Learning Specialist Genuent Global, LLC London, CA (+1 other) via Dice	 Full Stack Data Engineer Flexion San Ramon, CA via WFH Jobs
 Machine Learning Scientist Amazon Sunnyvale, CA via LinkedIn	 Data Science Engineer, Recent Graduate eBay San Jose, CA via EBay - EBay Inc.	 Senior Product Data Scientist Bill.com Palo Alto, CA via Lever	 Full Stack Data Scientist, Supply DS Wish San Francisco, CA via SmartRecruiters Jobs
 Machine Learning Researcher Samsung Research America Mountain View, CA (+1 other) via Greenhouse	 Machine Learning Research Scientist Capital One San Francisco, CA via Capital One Careers	 Product Analyst, Data Science Google Mountain View, CA via Google Careers	 AI/ML Full Stack Engineer (Quality Engineering) Apple Cupertino, CA via WDTN Jobs
 Data Scientist Waymo Mountain View, CA via Glassdoor	 Senior Machine Learning Analyst Google Sunnyvale, CA via Google Careers	 Senior Business Data Analyst Intuit Corp Mountain View, CA via Intuit Jobs	 Software Engineer / Data Scientist, Fleet Analytics Tesla Palo Alto, CA via LinkedIn
 Data Analyst Snowflake San Mateo, CA via Snowflake Careers	 Research Data Analyst Stanford University Stanford, CA (+1 other) via Inside Higher Ed Careers		 AI Deep Learning Software Engineer Intel Santa Clara, CA via TOPBOTS
 Software Engineer Electronic Arts Inc. Redwood City, CA via Glassdoor	 Machine Learning Research Engineer Embark Trucks, Inc. San Francisco, CA via ZipRecruiter		 Machine Learning Modeler, Cash App Square San Francisco, CA via SmartRecruiters Jobs
	 Software Engineer, Machine Learning, Research Waymo Mountain View, CA via Waymo		

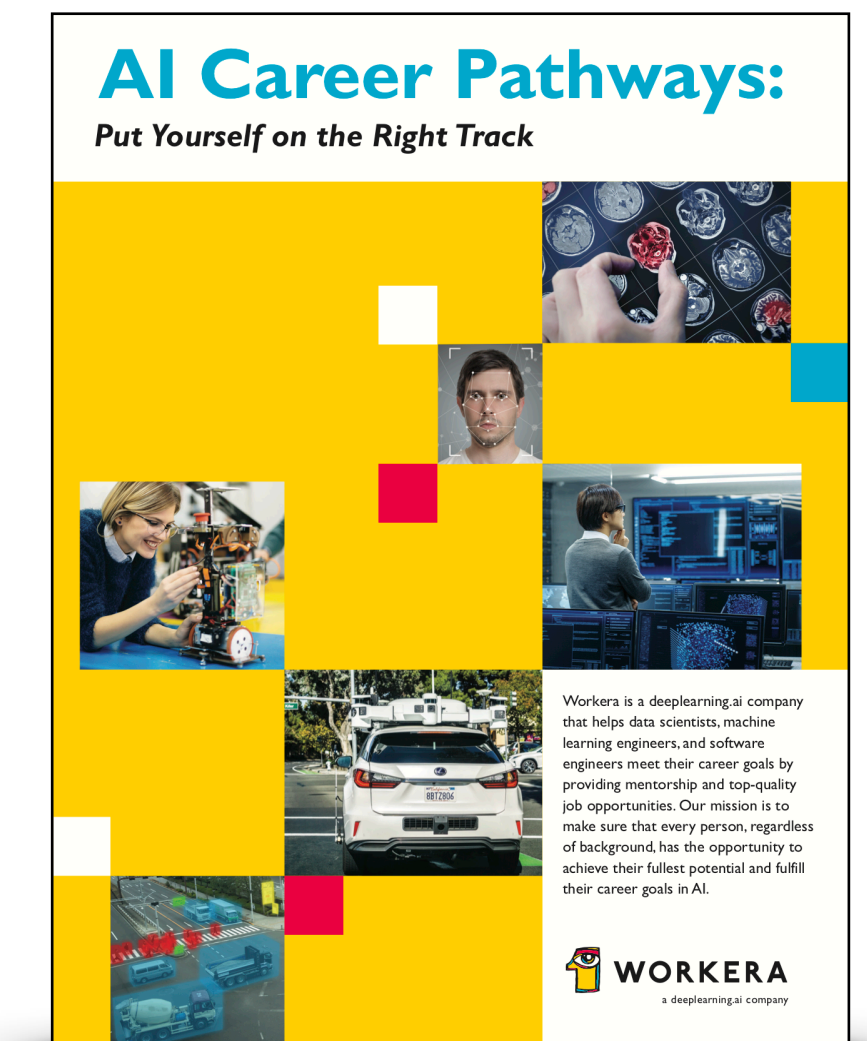
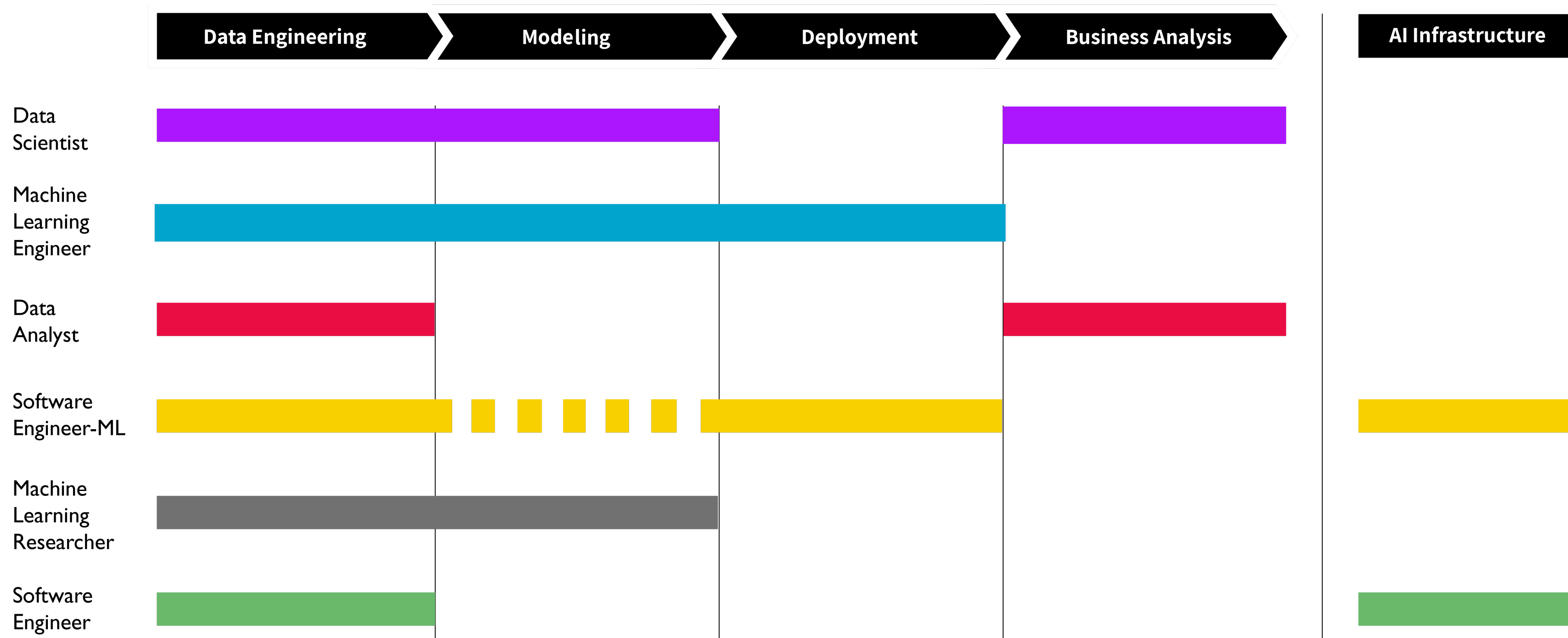
Companies are confused as much as applicants.

Kian Katanforoosh

**It makes it difficult for job seekers to apply to
the job that's right for them.**

How can applicants find the right role and stand out?

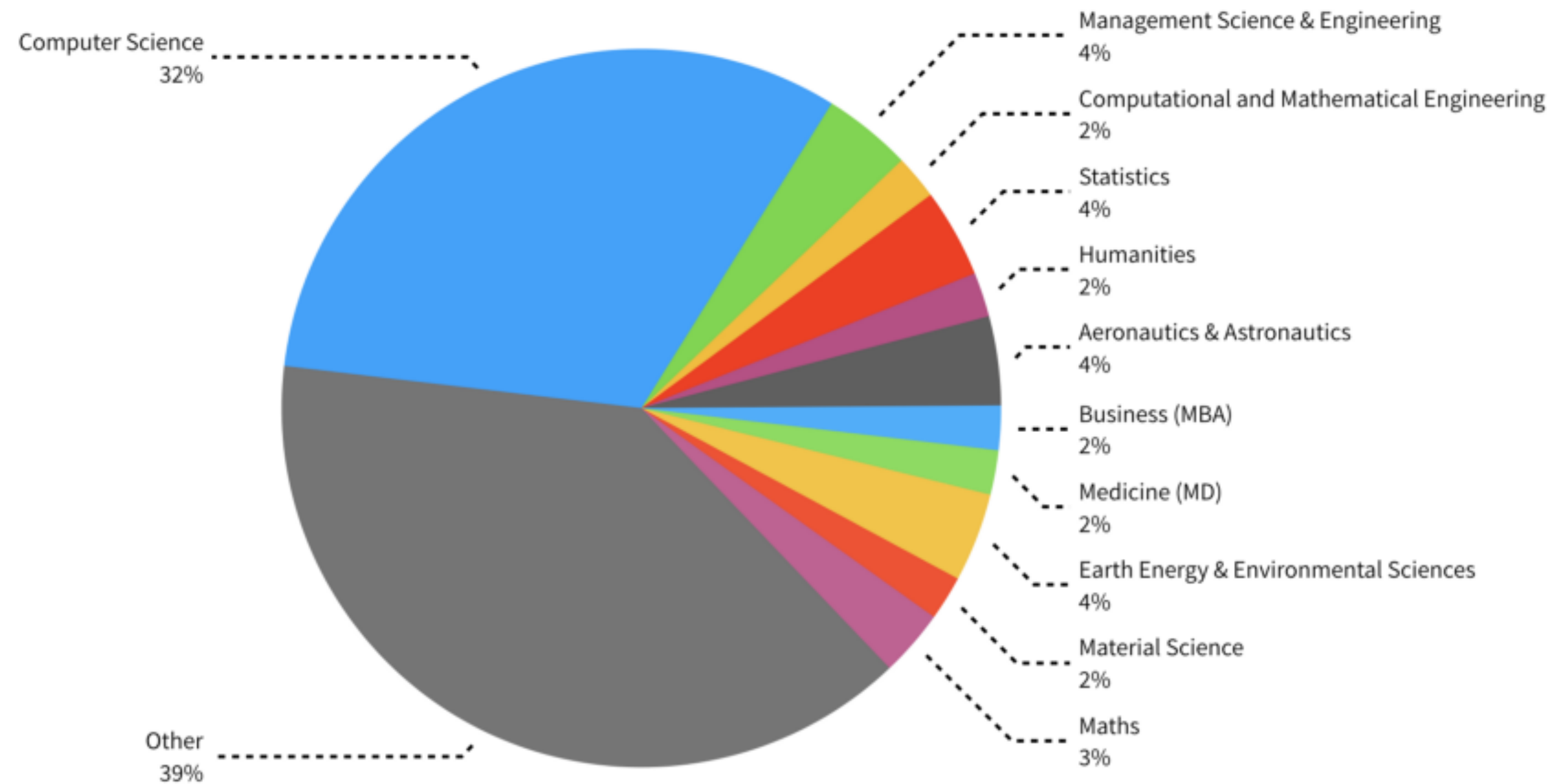
Identify your career pathway and benchmark your skills regularly.



AI career pathways report (2020)

AI+X: Develop your AI competency in conjunction with your subject-matter expertise.

What is your department?



Predicting Ionic Liquid Materials Properties from Chemical Structure

Tyler Quill, Shayta Roy and Yaakov Tuchman
Department of Materials Science & Engineering
Stanford University

Learning Power Flow Mappings for Power Grid Simulation

Lily Buechler
Department of Mechanical Engineering
Stanford University

Deep Learning for Local Ancestry Inference

Jan Sokol
Biomedical Informatics Training Program
Stanford University

Matthew Aguirre
Biomedical Informatics Training Program
Stanford University

CADDYIAN - Diver Gesture Language Classification

Veronica Peng
Dept. of Computer Science

Xi Yu
Dept. of Bioengineering

Wenxi Zhao
Dept. of Civil & Env. Engineering

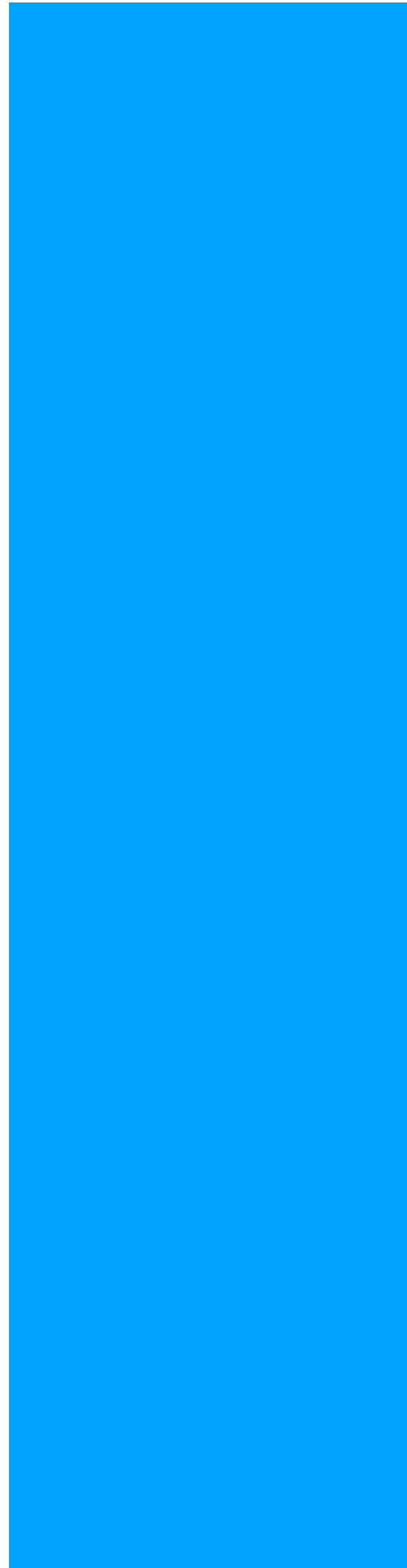
Predicting Parkinson's disease behavioral state from neural and kinematic data

Marissa Lee, Johanna O'Day, Kirsten Seagers
Department of Computer Science
Stanford University

And many more..



Speech



Genomics



Autonomous Vehicles

**“I’m a Data Scientist,
with expertise in Speech”**

**“I’m a MLE,
with expertise in Genomics”**

**“I’m a Data Analyst,
with expertise in Marketing”**

**“I’m a Software Engineer,
with expertise in
Manufacturing Automation”**

If you're transitioning to AI, be an AI+X.

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What's next?

Natural Language Processing

CS 124: From Languages to Information (LINGUIST 180, LINGUIST 280)

CS 224N: Natural Language Processing with Deep Learning (LINGUIST 284)

CS 224U: Natural Language Understanding (LINGUIST 188, LINGUIST 288)

CS 276: Information Retrieval and Web Search (LINGUIST 286)

Computer Vision

CS 131: Computer Vision: Foundations and Applications

CS 205L: Continuous Mathematical Methods with an Emphasis on Machine Learning

CS 231N: Convolutional Neural Networks for Visual Recognition

CS 348K: Visual Computing Systems

Others:

CS 273B: Deep Learning in Genomics and Biomedicine (BIODS 237, BIOMEDIN 273B, GENE 236)

CS 236: Deep Generative Models

CS 228: Probabilistic Graphical Models: Principles and Techniques

CS 337: AI-Assisted Care (MED 277)

CS 229: Machine Learning (STATS 229)

CS 129: Applied Machine Learning

CS 234: Reinforcement Learning

CS 221: Artificial Intelligence: Principles and Techniques

CS 217: Hardware Accelerators for Machine Learning

CS 329S: Machine Learning Systems Design

Classes at Stanford

AI for Healthcare Bootcamp

AI for Climate Bootcamp

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Closing remarks

1. You can **feel proud**. Despite the difficult circumstances, you've built a project that you can carry with you after the class.
2. If you enjoyed working on your project, **keep developing it after the class**.
3. We encourage you to **review other students' projects** which will be shared on the CS230 website.
4. **Keep in touch**. You're officially a CS230 graduate, and we hope that you've built a relationship with your team members or a teaching staff member.