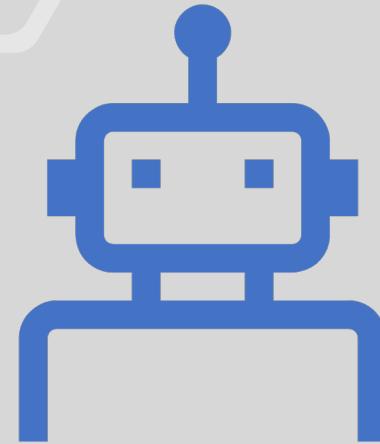


# What is it Like Pursuing a Career in AI?

Hossein Hajimirsadeghi

October 21, 2020



# Agenda

## Introduction

- Who Am I?
- Career Goals

## What is AI?

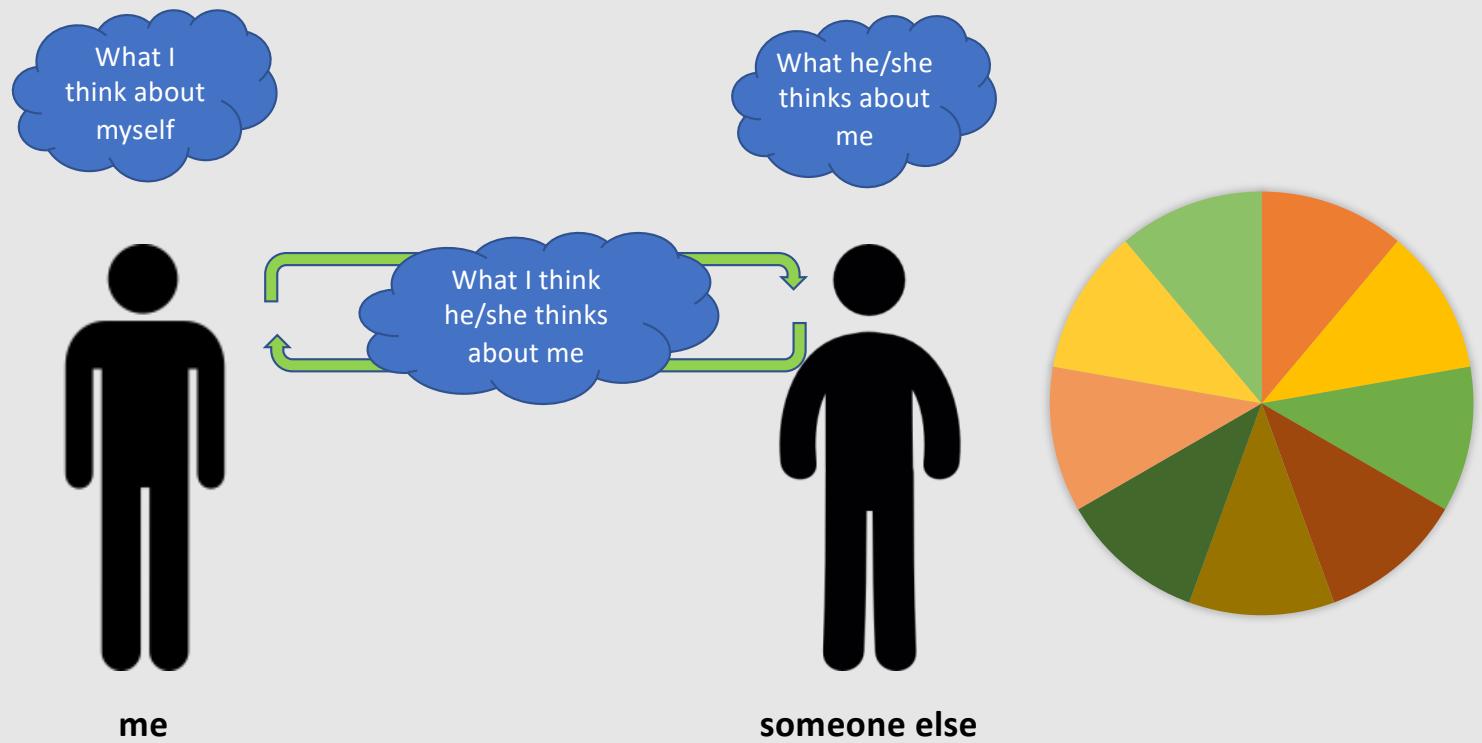
- Brief Introduction

## Career Path

- Related Jobs
- Required Skills
- Interview Process
- How to Learn?

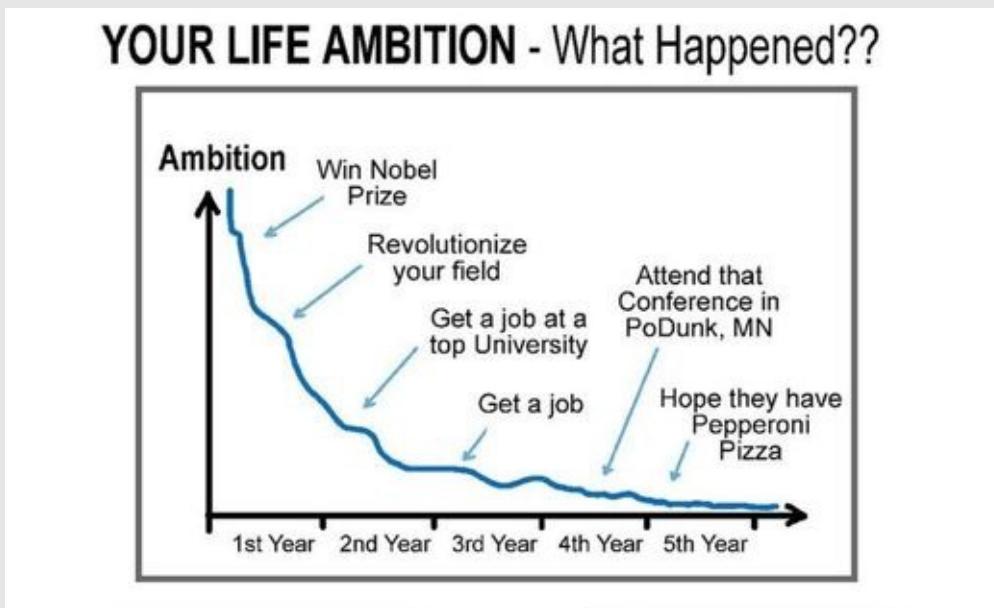
# Introduction

# Who Am I?



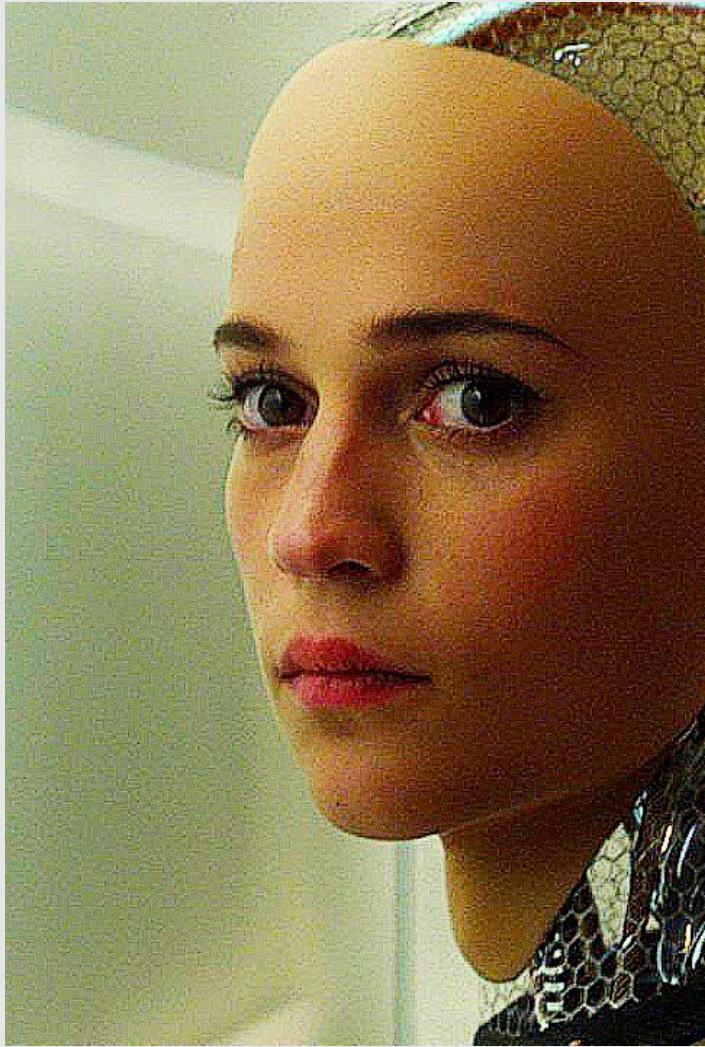
The big five test: <https://www.truity.com>

# Career Goals



<http://phdcomics.com/>

# What is AI?



# Artificial General Intelligence

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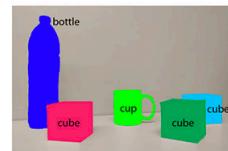
Computer  
Vision



See and Understand



(b) Object localization



(d) Instance segmentation

Speech  
Recognition

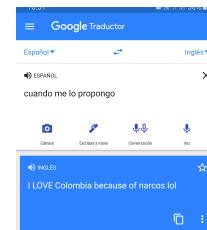


Google Home

Robotics



+ planning +  
motion & action



READ WRITE

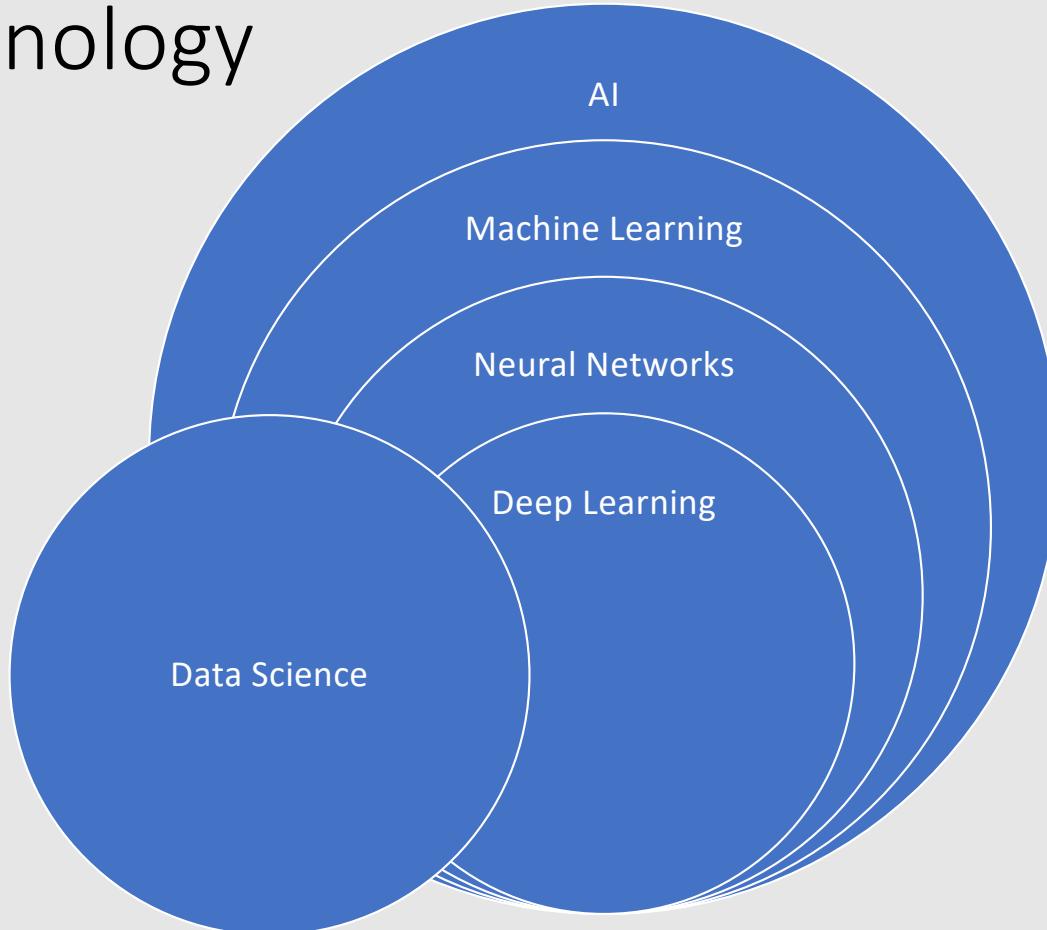
Natural  
Language  
Processing



Learning

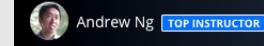
# Artificial Narrow Intelligence

# AI Terminology



## AI For Everyone

★★★★★ 4.8 10,365 ratings | 🌟 98%



<https://www.coursera.org/learn/ai-for-everyone>

# Career Path in AI

# Related Jobs

AI has potential to deliver additional global economic activity of \$13 trillion by 2030



## Machine Learning

Field of study that gives computers the ability to learn without being explicitly programmed  
output is a software



## Data Science

Science of extracting knowledge and insights from data  
Output is a slide deck

### AI For Everyone

★★★★★ 4.8 10,365 ratings | 98%

 Andrew Ng TOP INSTRUCTOR

<https://www.coursera.org/learn/ai-for-everyone>

Machine Learning Engineer

Machine Learning Researcher

Data Engineer

Data Scientist

Data Analyst

# Required Skills



## Coding Skills

Data Structure and Algorithms  
Programming: Python, C++, R, etc.  
Shell tools and scripting



## Machine Learning Skills

**ML Knowledge**

- Courses, Popular Papers, Online Sources
- Data Analysis/Visualization
- Related Python/R Packages (e.g. Pandas)

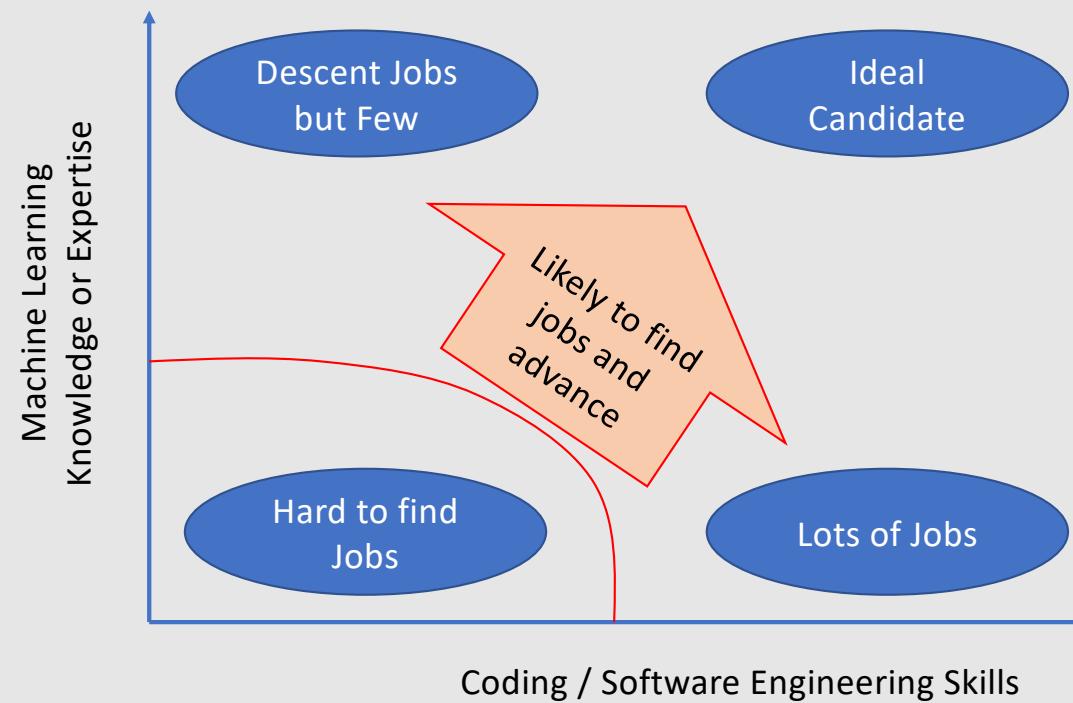
**Classic ML**

- Scikit-Learn

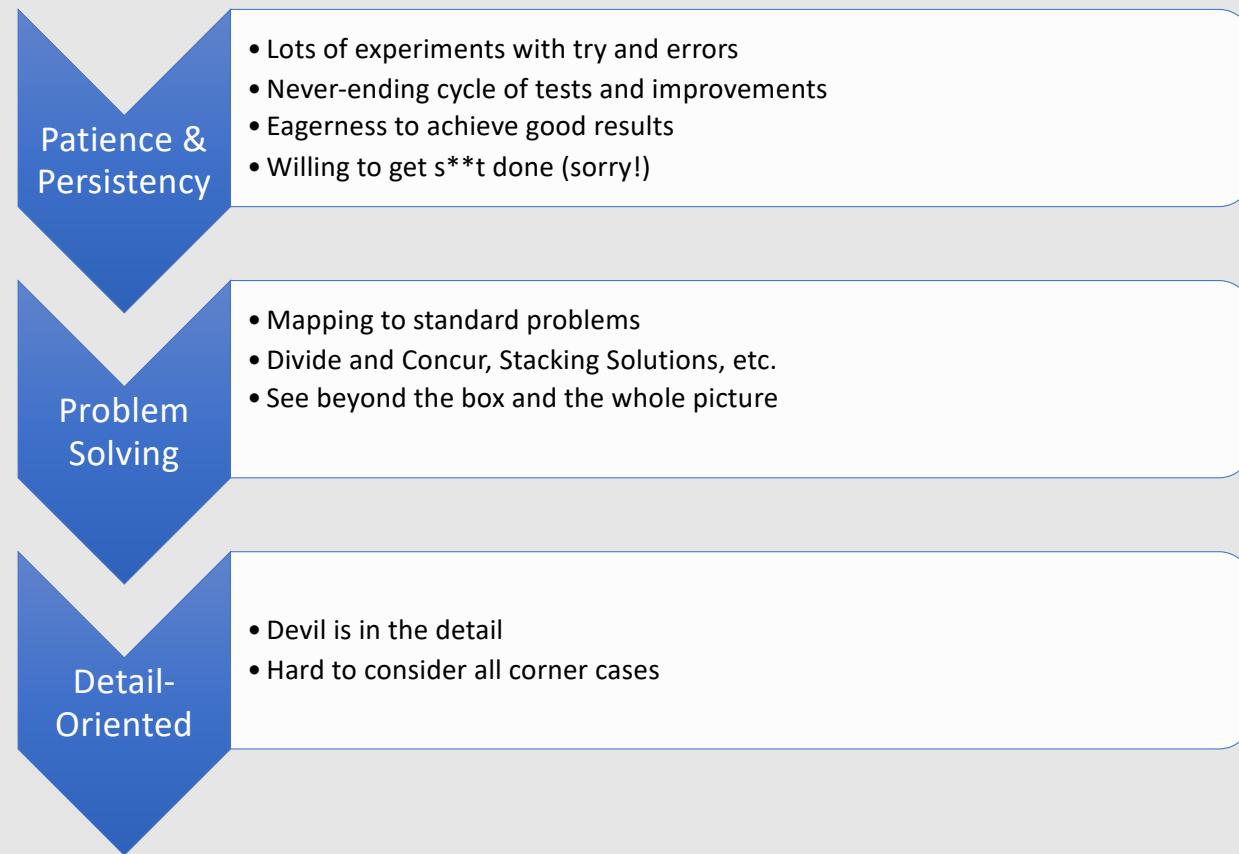
**Deep Learning**

- Pytorch, TensorFlow, Keras, MXNet

# Required Skills



# Soft Skills



# Interview Process



## Networking (very important to get interviews)

- Talk to as many people as know
- Find people like yourself who found job



## Coding Skills

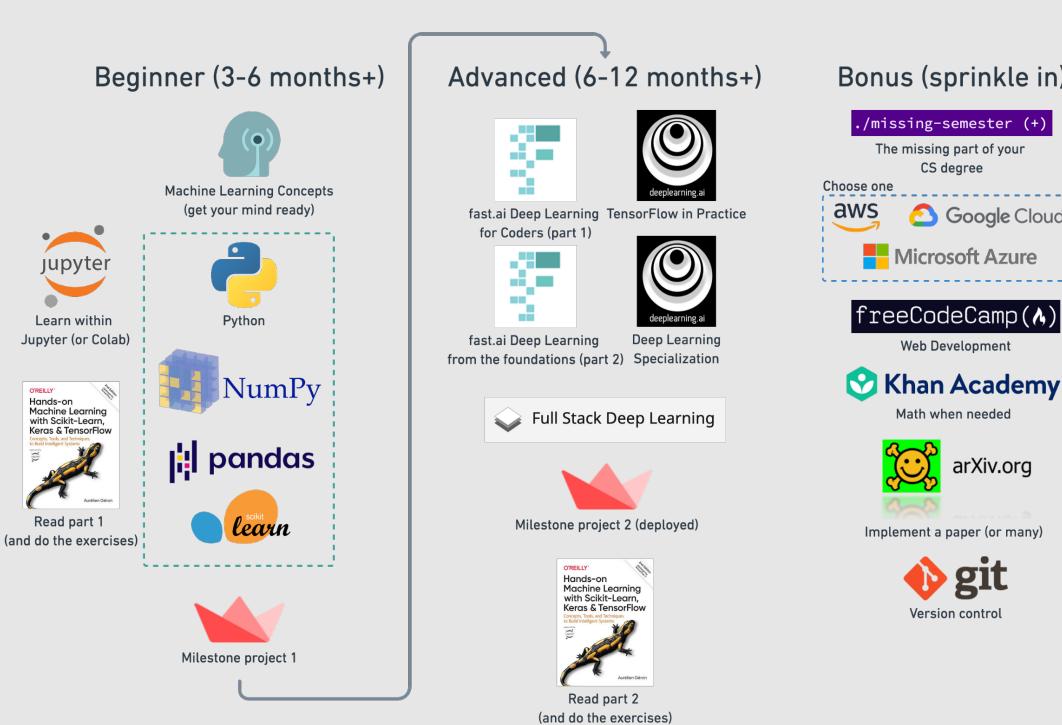
- Data Structure and Programming
- leetcode.com style questions
- Books such as “Cracking the coding interview” or “Elements of Programming Interviews in Python”



## Machine Learning Skills

- Starts with your past experiences/projects
- Breadth of knowledge
  - A library of standard questions
- Depth of knowledge
  - In your area of expertise or
  - What their requirements are

# How to Start Learning?



## • Read the story by Daniel Bourke

- [How I'd study machine learning — if I'd be starting out today](#)
- Instead of stacking certificates, stack skills (and prove your skill through sharing your work).
- Instead of looking for more resources, reread/redo the bests you have.

The resources in the previous slide are likely more helpful

# Some Good Courses

## Data Science

This course is part of the Advanced Machine Learning Specialization

### How to Win a Data Science Competition: Learn from Top Kagglers

★★★★★ 4.7 833 ratings | 🌟 93%

Dmitry Ulyanov +4 more instructors

[Go To Course](#)

Already enrolled  
Financial aid available

59,100 already enrolled

## Machine Learning

### Machine Learning

★★★★★ 4.9 131,774 ratings | 🌟 97%

Andrew Ng [TOP INSTRUCTOR](#)

[Enroll for Free](#)  
Starts Apr 27

Financial aid available

3,069,653 already enrolled

## Deep Learning

### Deep Learning Specialization

Deep Learning Specialization. Master Deep Learning, and Break into AI

★★★★★ 4.8 207,426 ratings

Andrew Ng +2 more instructors [TOP INSTRUCTORS](#)

[Enroll for Free](#)  
Starts Apr 26

Try for Free: Enroll to start your free trial

Financial aid available

327,902 already enrolled

## Coding

### Python for Data Structures, Algorithms, and Interviews!

Get a kick start on your career and ace your coding interviews!

4.4 ★★★★★ (8,396 ratings) 54,314 students

Created by [Jose Portilla](#)

Last updated 9/2019

English

English, French [Auto], 8 more

## Coding

### Algorithms, Part I

★★★★★ 4.9 7,809 ratings | 🌟 98%

Kevin Wayne +1 more instructor

[Enroll for Free](#)  
Starts Oct 12

737,862 already enrolled

## Coding

### Algorithms, Part II

★★★★★ 4.9 1,410 ratings | 🌟 96%

Robert Sedgewick +1 more instructor

[Enroll for Free](#)  
Starts Oct 12

201,594 already enrolled

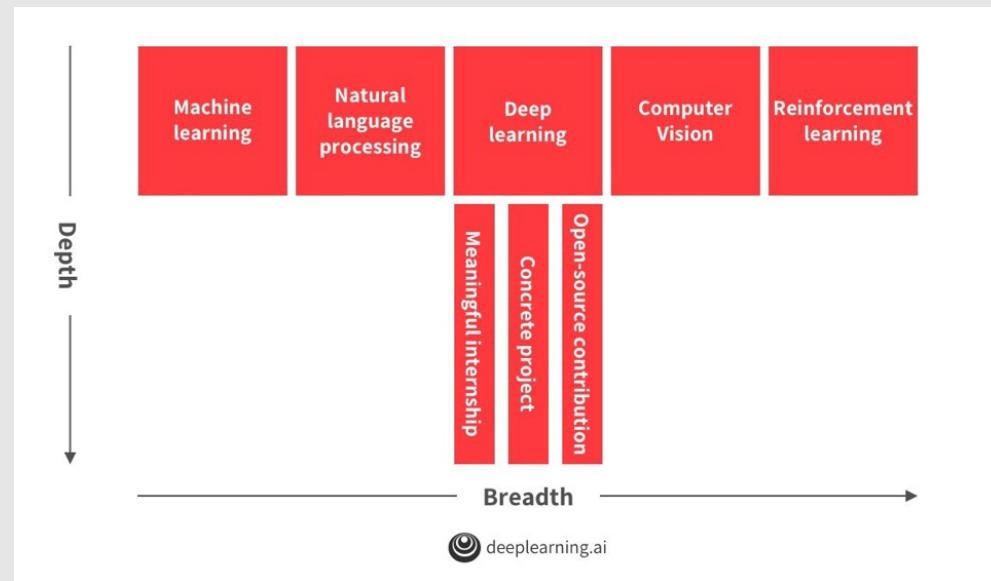
# Who is a good ML Researcher?

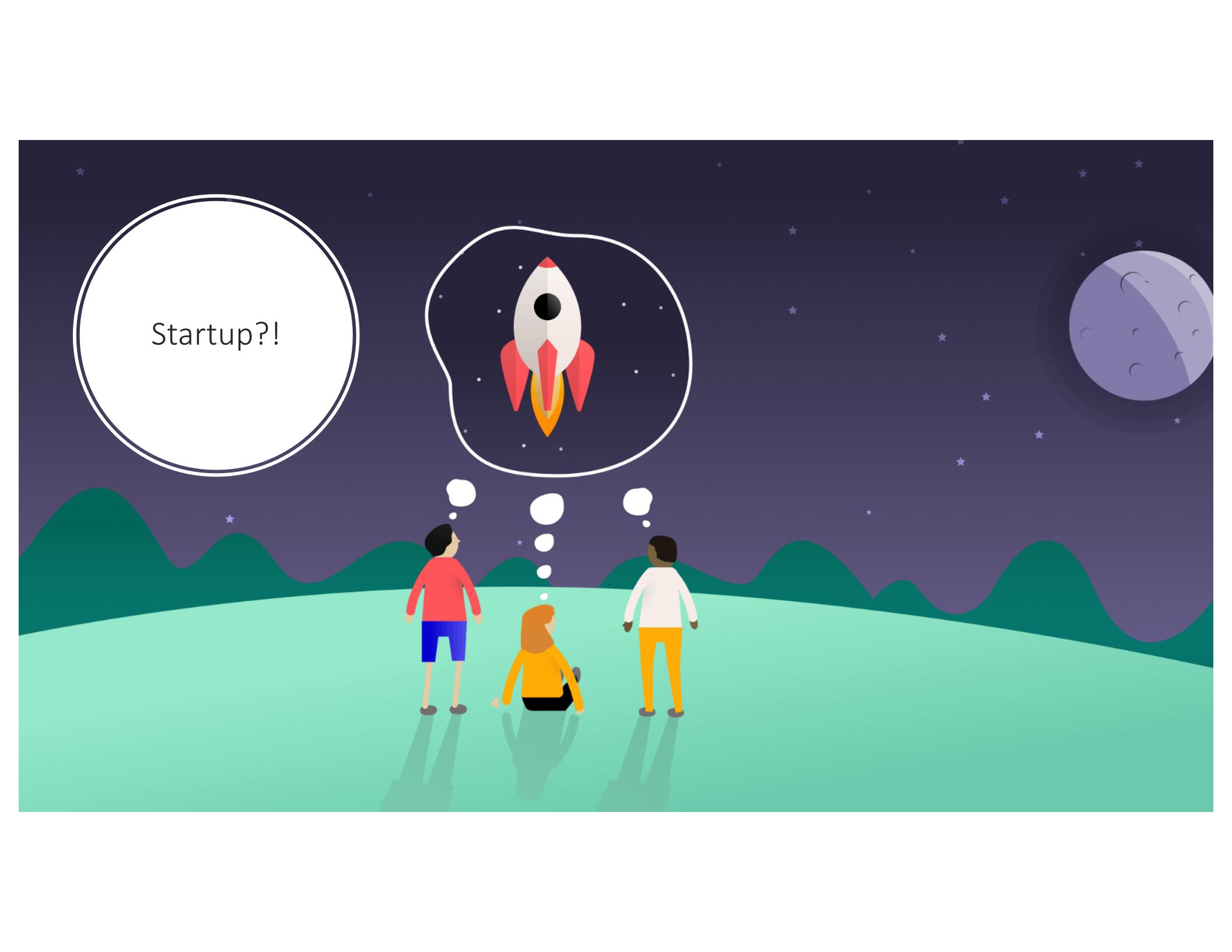


Stanford CS230: Deep Learning | Autumn 2018 |  
Lecture 8 - Career Advice / Reading Research...

43K views

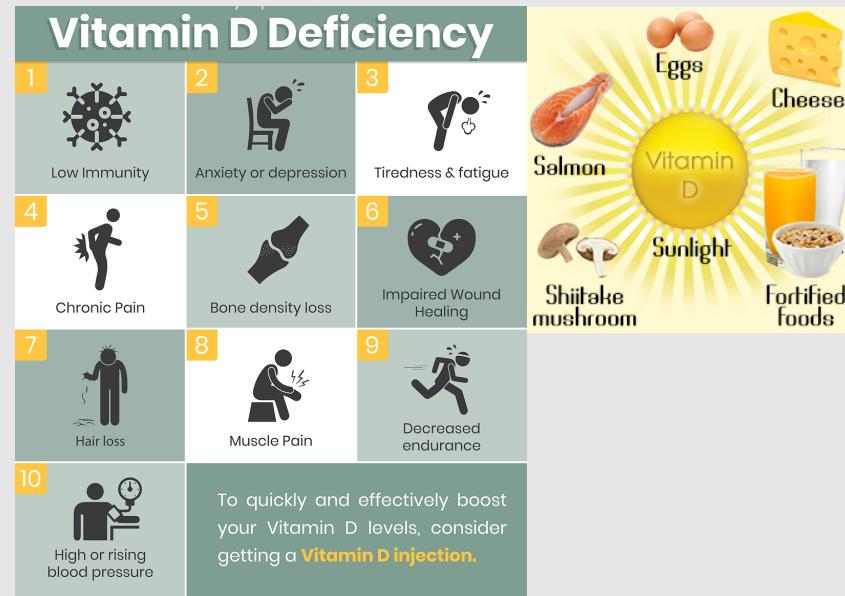
<https://youtu.be/733m6qBH-jl>





Startup?!





# Thank You