

WELCOME TO



AI+ WEBINAR



Career Services

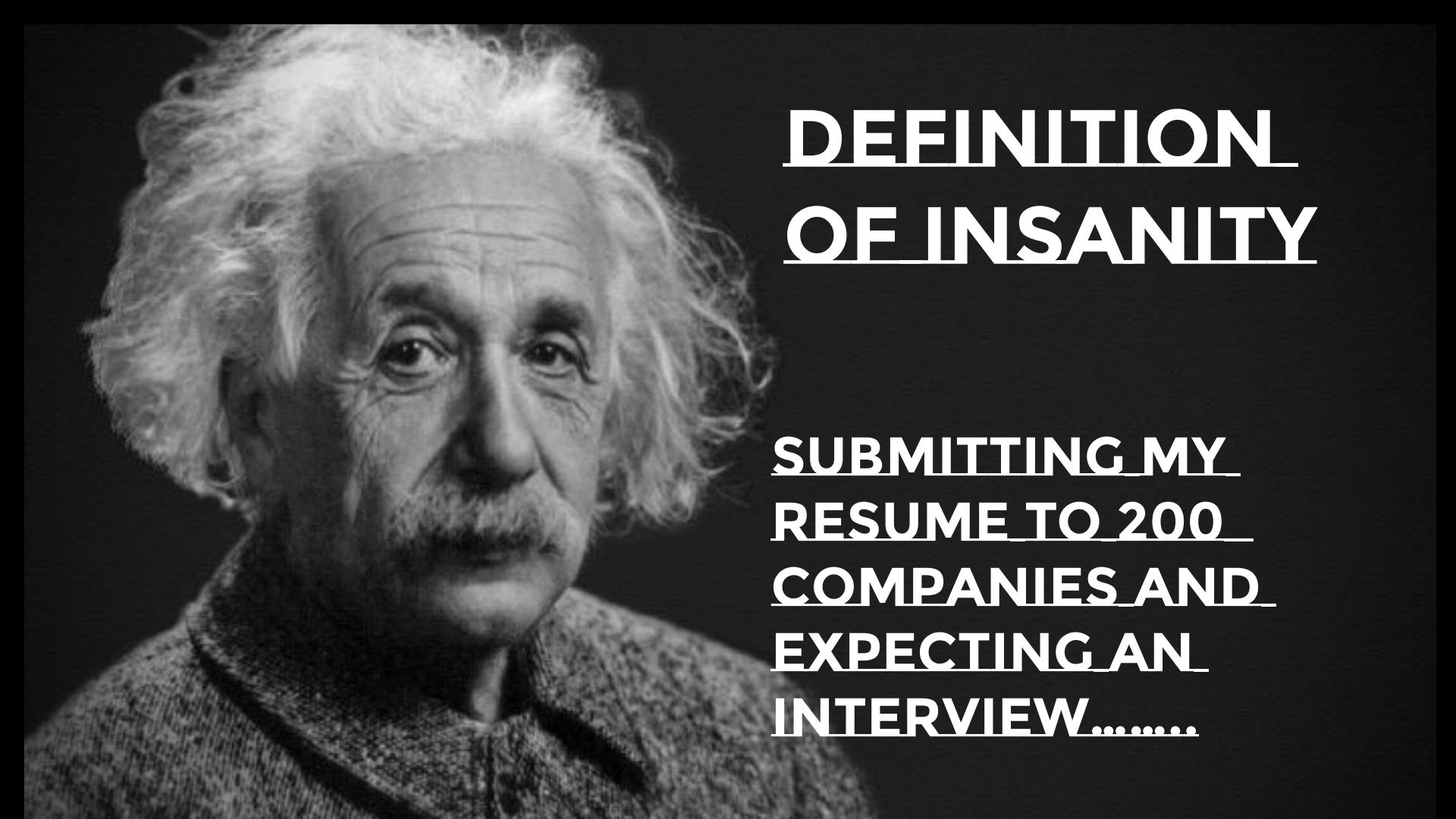
**Jobs Ready Skills that will get you
hired in 2021!**

Presented by:

Sheamus McGovern

Software Developer & AI Expert



A black and white portrait of Albert Einstein, showing him from the chest up. He has his characteristic wild, grey hair and a well-groomed, light-colored beard and mustache. He is looking slightly to the right of the camera with a thoughtful expression. The background is dark and out of focus.

**DEFINITION
OF INSANITY**

**SUBMITTING MY
RESUME TO 200
COMPANIES AND
EXPECTING AN
INTERVIEW.....**

Job Ready Skills

Job ready skills are **transferable** skills
that help you:

- Prepare for a new job or role
- Get a new job
- Keep a job
- Excel at a job

Transferable Job Ready Skills

Hard Skills



Soft Skills



Interviewing &
Prep



Domain Knowledge

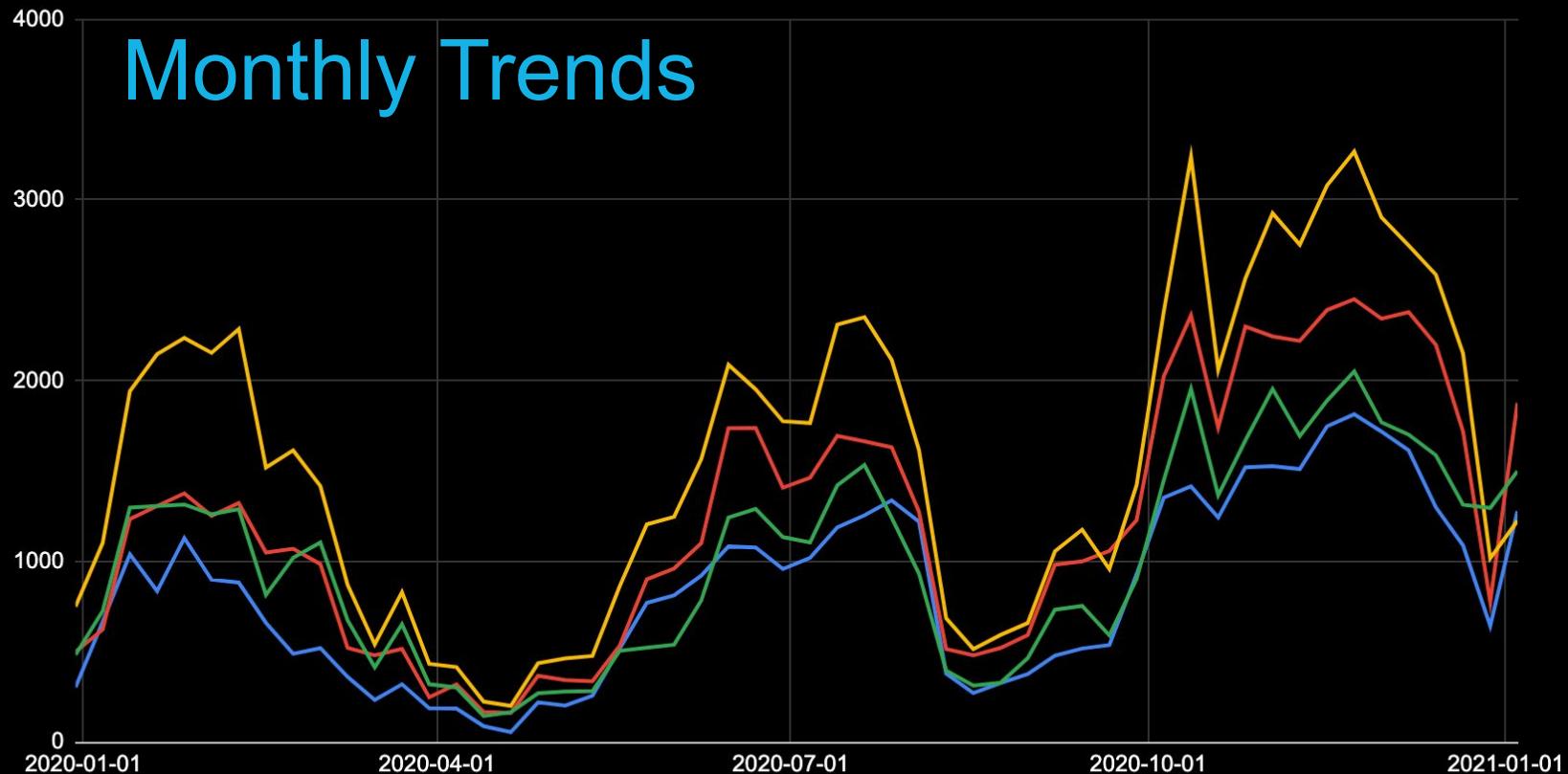


Job Ready - Preparation and Interviewing

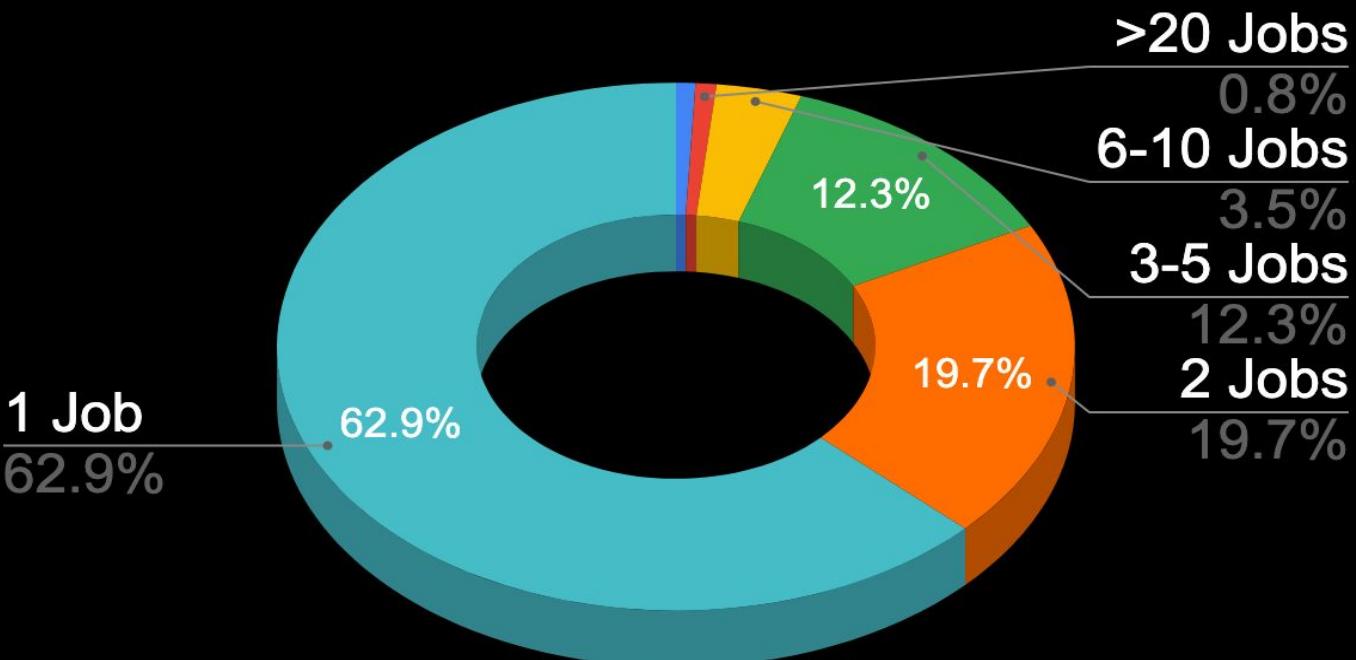
Research the market

- What is my objective?
 - Why do you want to work here?
- What do I need to prepare?
- What
 - Who's hiring?
 - Why are they hiring?

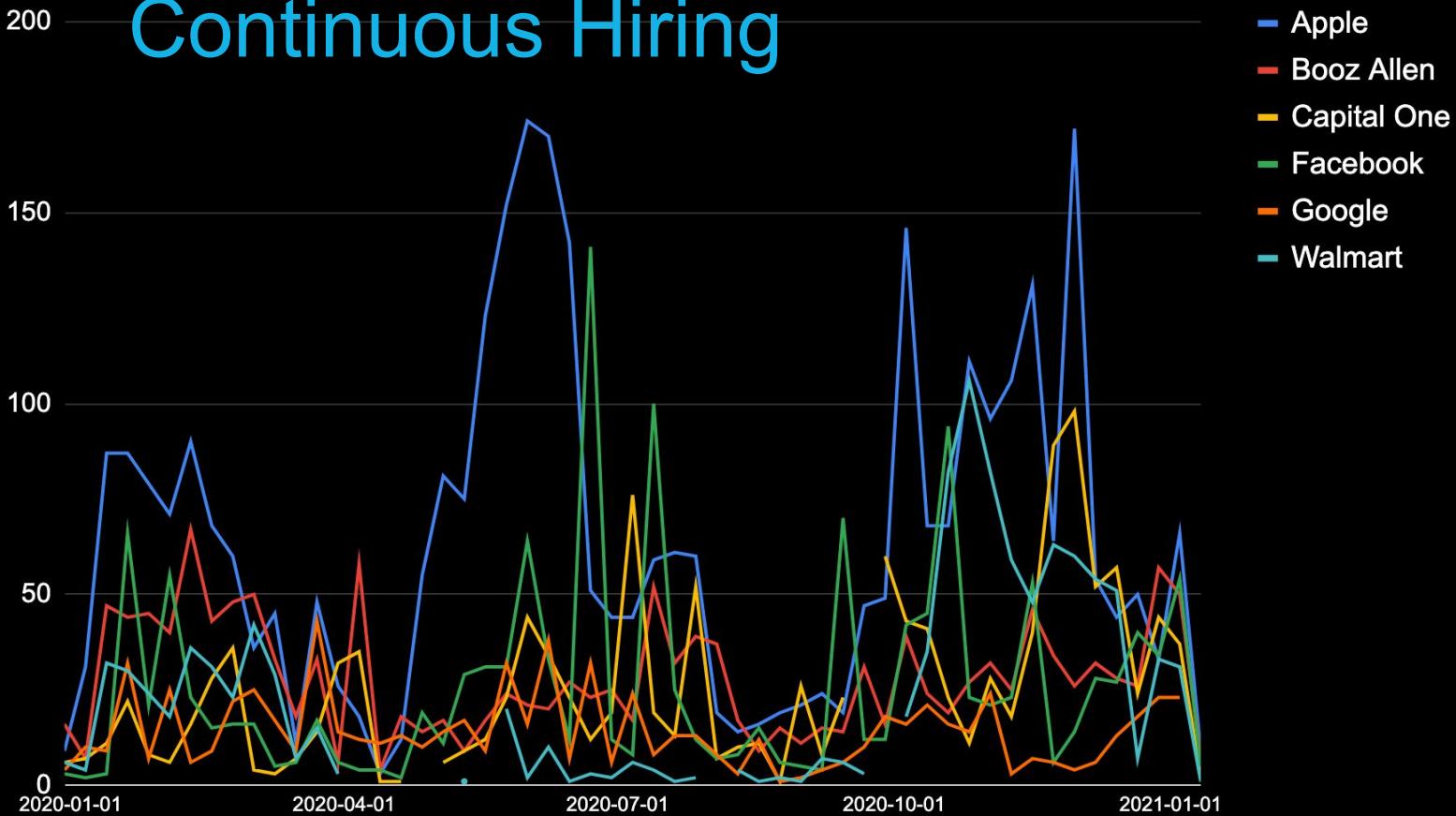
— Data Engineer — Data Scientist — Machine Learning Engineer — Data Analyst



Number of Open Positions



Continuous Hiring



Who's Hiring?

1	Dell	21	GSK	
2	Apple	22	Roche	
3	Frederick National Laboratory	23	UnitedHealth Group	
4	Booz Allen Hamilton	24	Cognizant	
5	Capital One	25	EY	
6	Walmart	26	Illumina	
7	Change Healthcare	27	Ryder System	
8	Walmart	28	Amazon.com Services LLC	
9	Twitter	29	AWS Educate	
10	Oracle	30	Uber	
11	Dell	31	DataRobot	41 Oracle
12	Oracle	32	Guardant Health	42 Travelers
13	Thermo Fisher Scientific	33	Amazon	43 UnitedHealth Group
14	Apple	34	Centene	44 Wal-Mart
15	Tek Systems	35	JPMorgan Chase Bank, N.A.	45 Capital One
16	Humana	36	Staffigo Technical Services	46 Aerotek
17	Facebook	37	CVS Health	47 SADA Systems
18	Accenture	38	Nielsen	48 Tek Systems
19	Walmart	39	Talktime	49 Accenture
20	Uber	40	Twitter, Inc.	50 Cenpatico

the chaos with real time updates on the news affecting the global economy. [Enable Notifications.](#)

Enable

Why?

Technology

Startup Funding Touches New Records Amid Pandemic



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TECH

Three of the 10 biggest tech IPOs have happened in 2020 — including two in the last week

Three of the biggest IPOs for U.S. tech companies have been in 2020
Ten largest U.S. tech company IPOs, all-time



*Airbnb figure assumes underwriters buy allotted shares.
SOURCE: FactSet. Data as of 12/11/2020.



Across all Industries

2020

Healthcare



Finance & Insurance



Transportation



Construction



Retail & Warehousing



Govt. & City Planning



Legal



Mining



Food & Agriculture



Media & Entertainment



Education



Manufacturing



Energy



Telecom



Real Estate



CROSS-INDUSTRY TECH

AI Processors



NLP, NLG, & Computer Vision



AI Model Development



Cybersecurity



DevOps & Model Monitoring



Sales & CRM



Other R&D



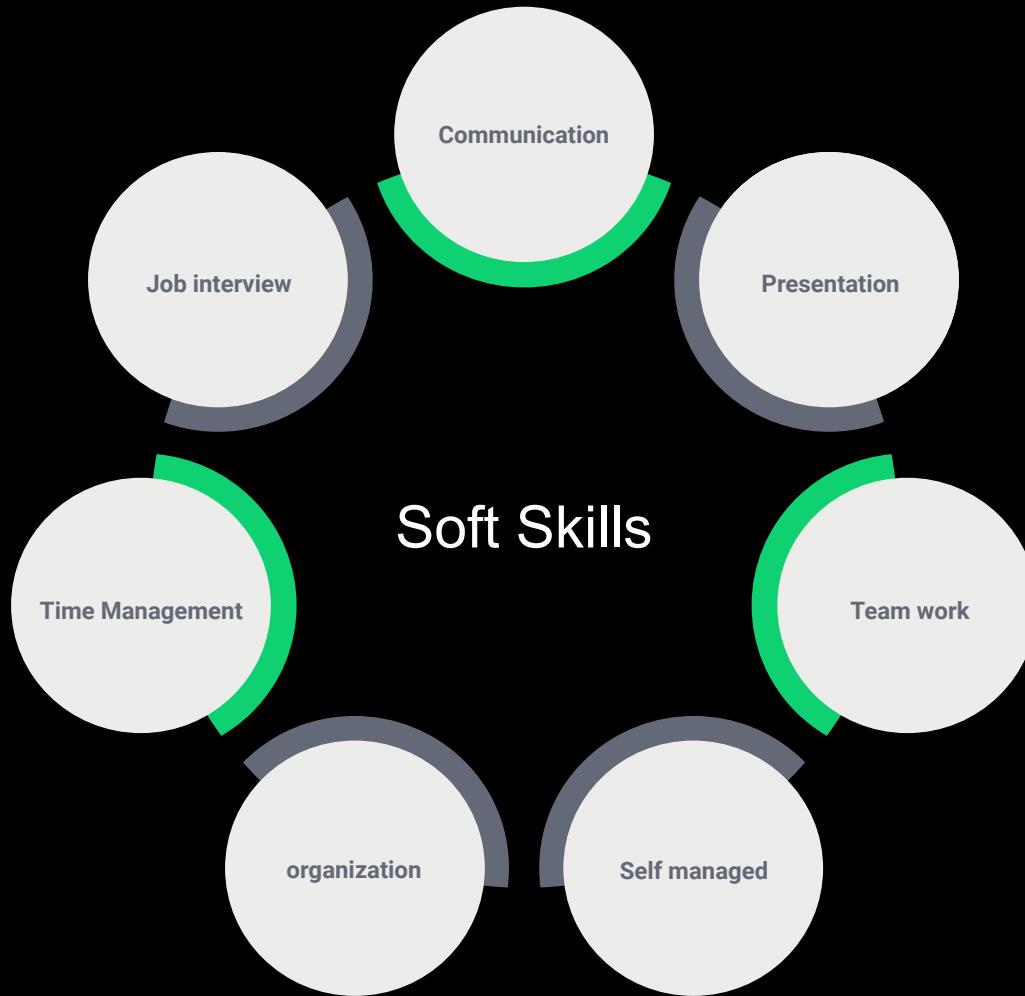
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Job Ready: Soft Skills

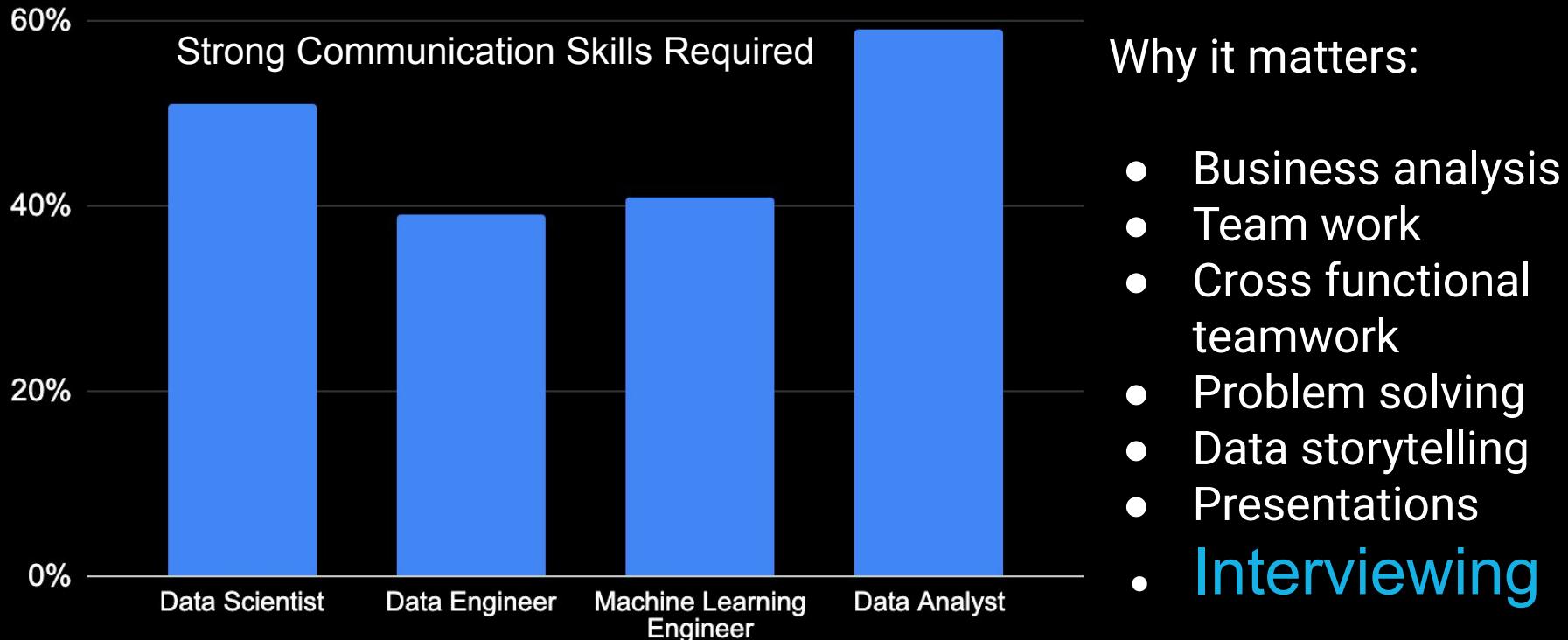
“There are four main technical skills that a data scientist needs: statistics, machine learning, data and computer science. What is in short supply is having all four of them together, plus the soft skills”

Milton Luaces, Senior Manager at Accenture – Applied Intelligence



Soft skills are non-technical skills related to work habits, interpersonal skills and personal traits that shape how you work on your own and with others

Communication Skills



Jun 27 2016

Preparing for Your Software Engineering Interview at Facebook



<https://www.facebook.com/careers/life/>

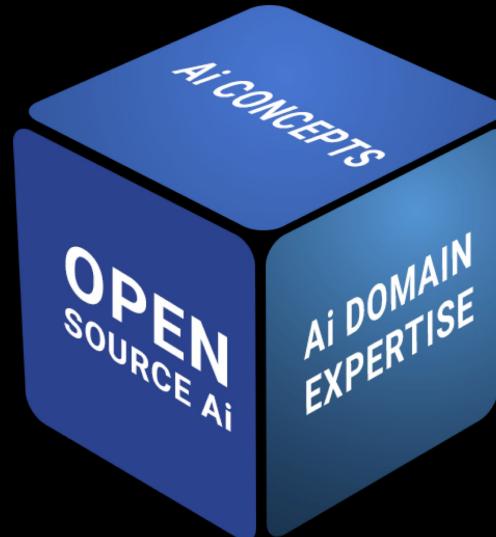
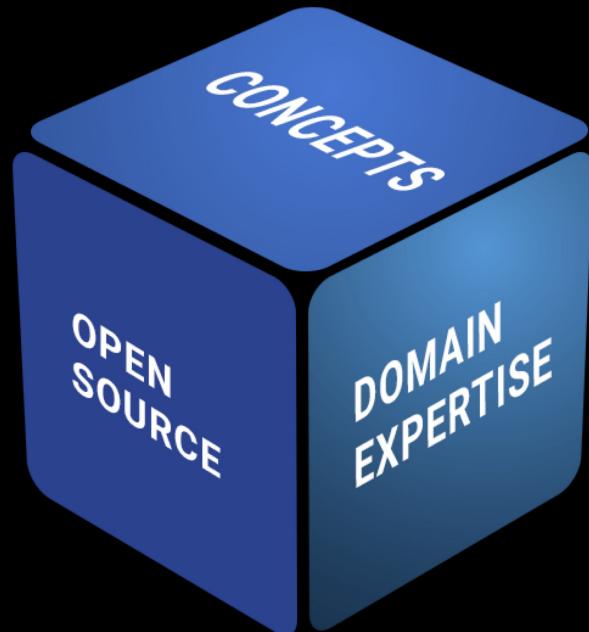
<https://www.facebook.com/careers/life/preparing-for-your-software-engineering-interview-at-facebook>

<https://towardsdatascience.com/the-facebook-data-scientist-interview-38556739e872>



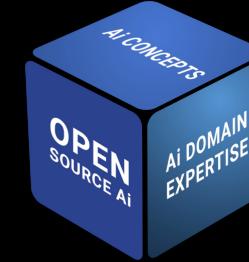
Data
Scientist

Building **Transferable Skills**
is the key to job readiness



Data Science Job Ready Skills

Concepts



1. Statistics & Math

- Exploratory Data Analysis,Hypothesis Testing,..
- Linear Algebra,Calculus,Probability

2. Machine Learning

- Supervised Learning
- Regression (Linear, Ridge,..)
- Classification (Logistic, SVM, Trees,KNN,Naive Bayes,Ensemble Methods,..)
- Model Selection & Evaluation
- Unsupervised Learning
- Dimension Reduction (PCA,..)
- Clustering (K-Means,..)
- Feature selection
- (Kernel Methods)
- Collaborative Filtering (Recommendations)
- Interpretable ML

3. Predictive Analytics

- Includes ML & stats models (predictive modeling)
- Predict future outcomes from past data
- Classification & regression

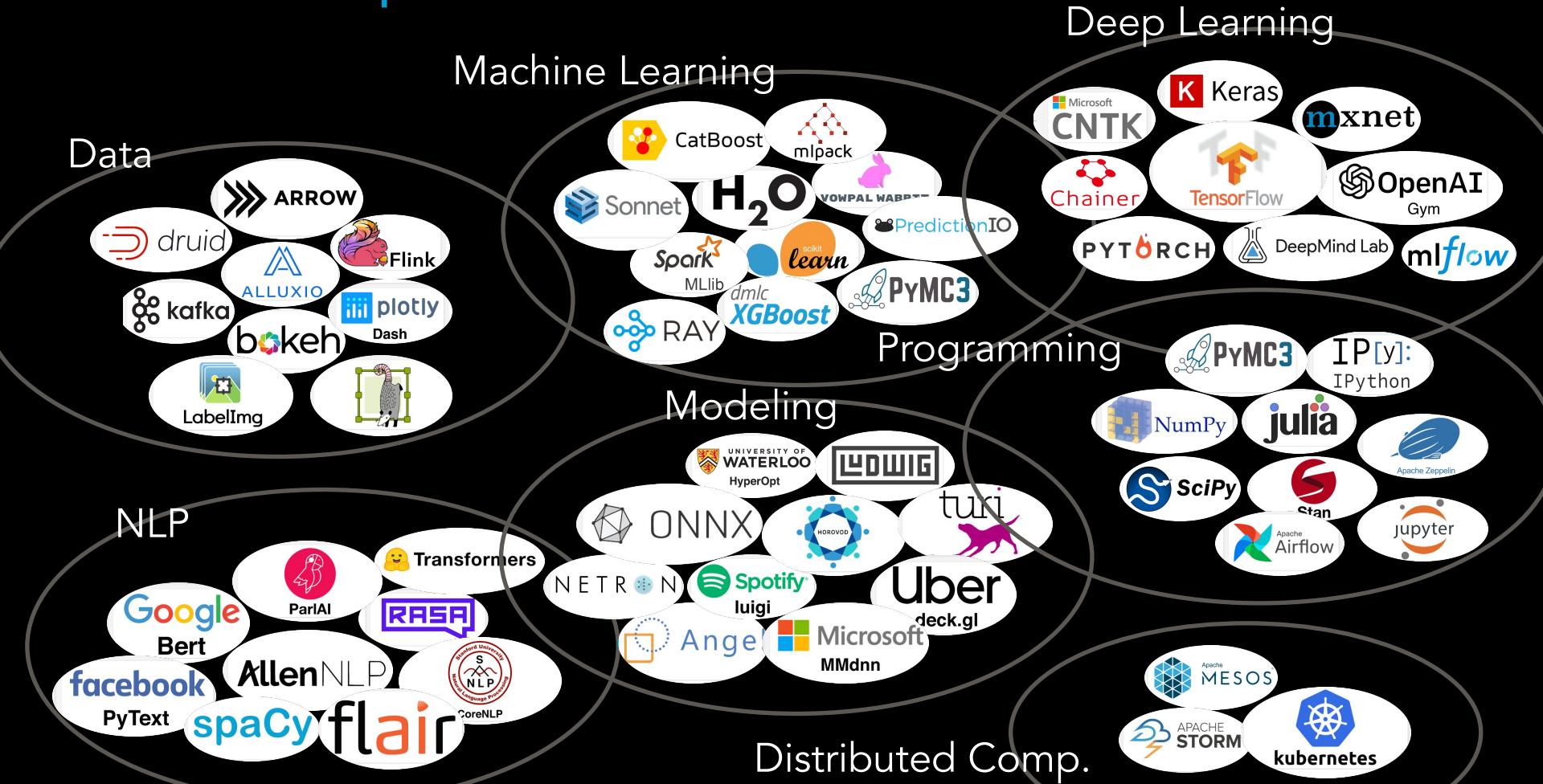
4 Reinforcement Learning & Deep Learning

- Bandit Problems, Markov Decision Processes
- Training, GANS, Vision, Supervised/Unsupervised,..

5. NLP/NLU

- Pre-training models, word2vec,BERT
- Neural machine translation
- Dialog systems and chat

Hands-on: Open Source Tools



A man in a black t-shirt and blue jeans stands by a waterfall, holding a blue strap. A speech bubble points to him from the top right.

Data
Scientist

Data Science Job Ready Skills

Open Source Hands-on Tools



1. Programming

- Python,
 - Pandas, scikit-learn, numpy
- R
 - Shiny, RMarkdown, Ggplot2, Caret, Mlr
- Scala, Java, Julia, GO

2. Data Wrangling

- SQL
- Database

3. Data at Scale

- Apache Spark
- Dask
- Hadoop, Pig
- Hive Data Warehousing
- Apache Druid

4 Frameworks and Tools

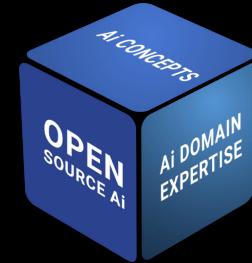
- Deep Learning & Machine Learning
 - Tensorflow, Tensorboard
 - PyTorch, Keras, scikit-learn
 - XGBoost
- NLP
 - Spacy, NLTK,
 - Huggingface Transformers

5 Pipeline/Workflow and Distributed Computing

- ETL
- MLFlow
- Kubeflow
- Kubernetes
- Apache Airflow
- Apache Storm

Transferable Skills

Job Ready: Hands-on Skills



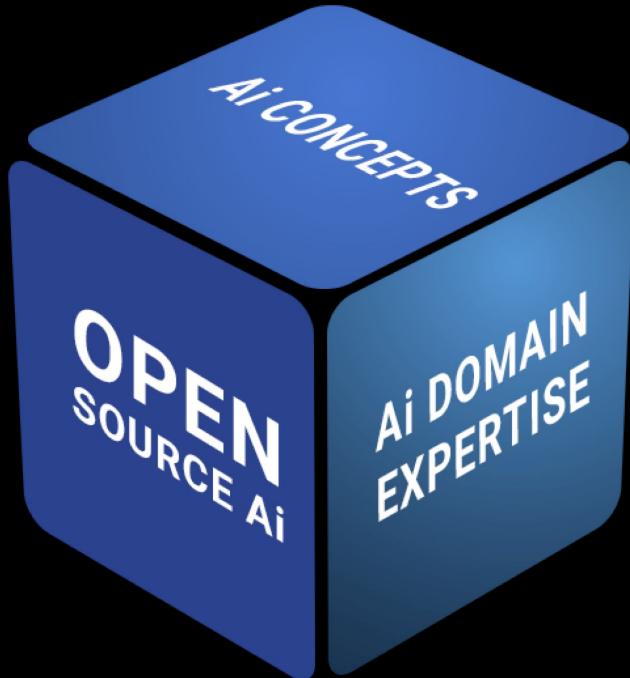
Getting hands on skills:

- **On the job**

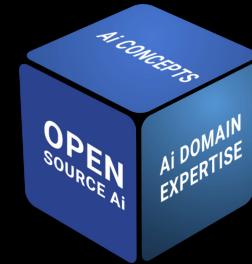
Not your role or position? Then:

- In university
- Hackathon and volunteering
- Blogging and learning
- **Consulting** side gig

Job Ready: Domain Expertise



Job Ready Domain Expertise



Getting hands on skills:

- **On the job**

Not your role or position? Then:

- In university
- Hackathon and volunteering
- Blogging and learning
- **Consulting** side gig

Figure 1-9: Global High-growth AI Enterprises

Ranking	Company name	Country	Growth rate	Segment
1	Shape Security	U.S.A	~23,000%**	Business Services
2	BrainChip	U.S.A	~16,000%**	Chip
3	Razorpay Software	India	~11,000%**	Finance
4	BioCatch	Israel	~10,000%**	Finance
5	Signifyd	U.S.A	~6,000%**	Business Services
6	Yixue Education—Squirrel AI	China	~5,000%*	Education
7	UiPath	U.S.A	~4,000%**	Robotics
8	Remark Holdings, Inc.	U.S.A	~3,700%**	Data Services
9	Domino Data Lab	U.S.A	~3,200%**	Finance
10	Voltari	U.S.A	~3,000%**	Advertisement
11	Mujin Inc	Japan	~1,200%*	Industrial
12	Vectra AI	U.S.A	~1,000%**	Security
13	DataRobot	U.S.A	~900%	Deep Learning
14	Bytedance	China	~700%*	Business Intelligent
15	Pinduoduo	China	~650%	Retail
16	Cloudwalk	China	~600%*	Facial Recognition
17	Welltok	U.S.A	~500%**	Healthcare
18	Tesla	U.S.A	~430%**	Autonomous Driving
19	SenseTime	China	~400%	Computer Vision
20	BounceX	U.S.A	~400%*	Marketing
21	CrowdStrike	U.S.A	~374%*	Network Security
22	Alteryx	U.S.A	~370%**	Data Mining
23	SequoiaDB	China	~363%*	Finance
24	Avant	U.S.A	~360%**	Finance
25	Cloudera, Inc.	U.S.A	~350%**	Data Services
26	JiaHe Info	China	~330%*	Agriculture
27	GumGum	U.S.A	~310%**	Computer Vision
28	Blue Prism	UK	~304%*	Robotics

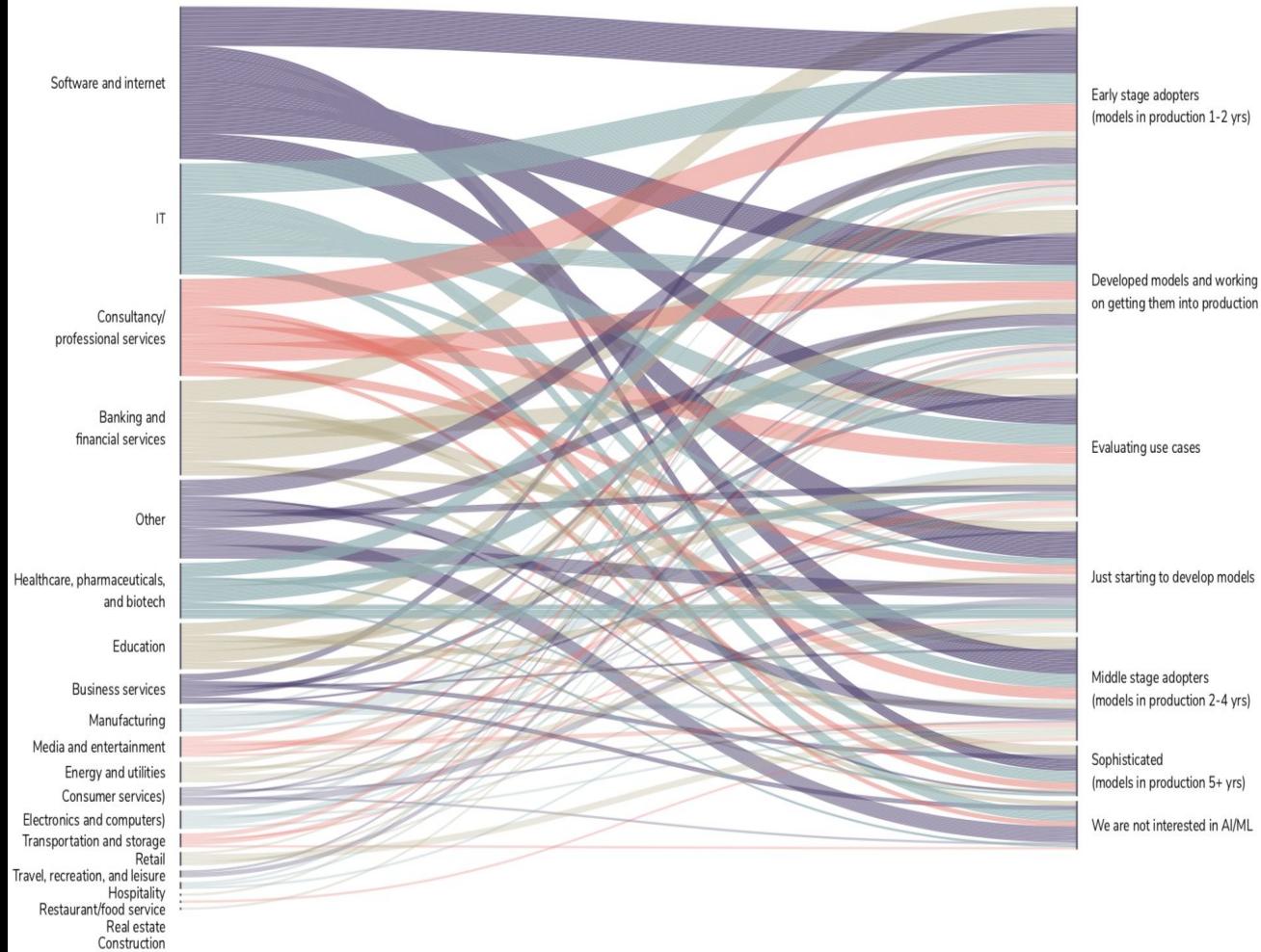
Deloitte

Global artificial
intelligence industry
whitepaper

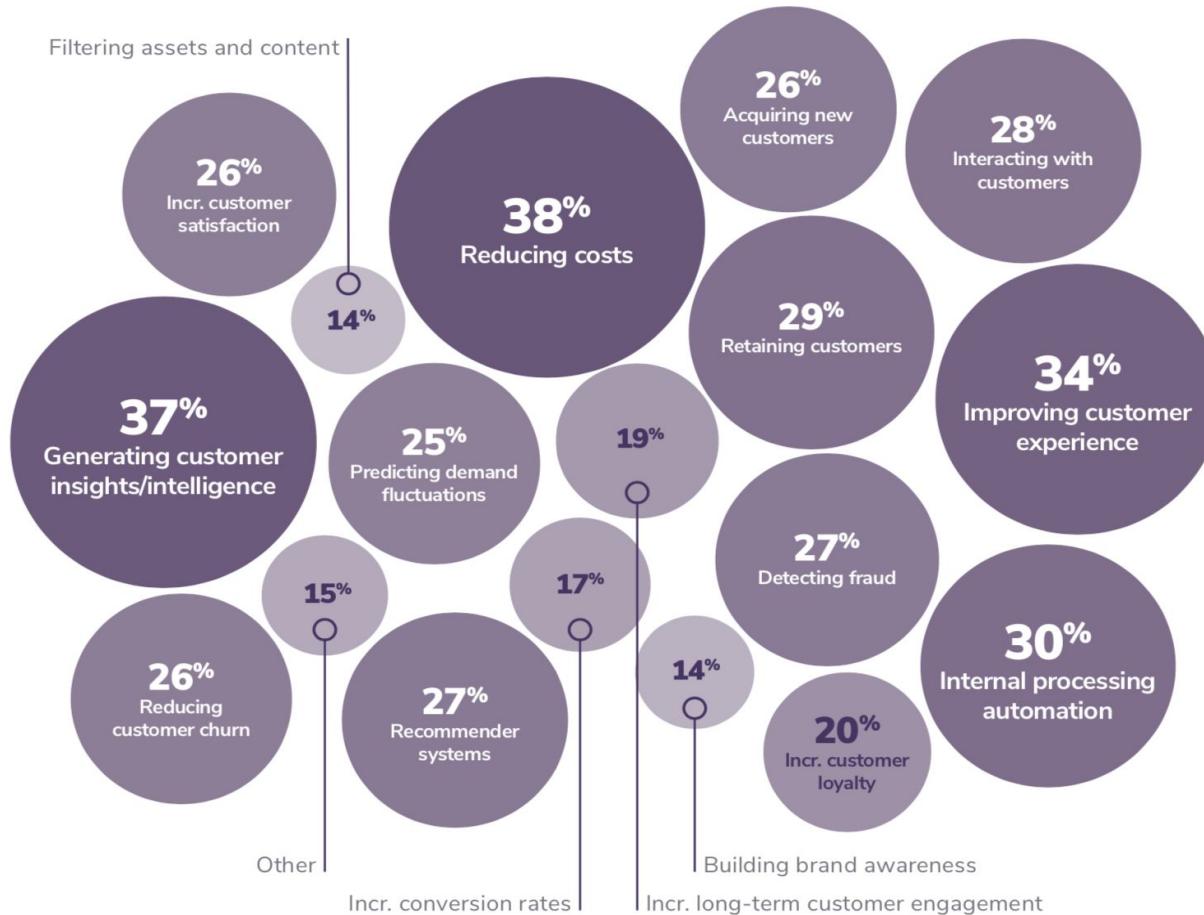
High Growth

- Ai
- Software
- Consulting
- Finance
- Healthcare
- Online Retail
- Biotech/Pharma
- Education
-

2020 state of enterprise machine learning

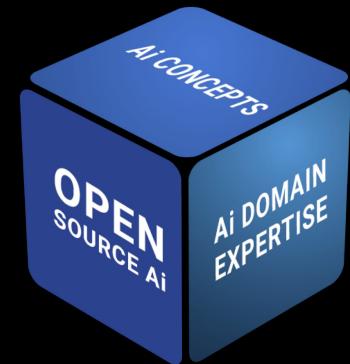


Machine learning use case frequency



Algorithmia

2020 state of
enterprise machine
learning



<https://linkhumans.com/diversity-inclusion-tech-companies/>



Screentime

First Netflix Inclusion Report Shows Gains for Women, Minorities

Female employees now make up almost half of the streaming giant's workforce, up from 40% in 2017.





UPCOMING EVENTS

Ai+ CAREER LAB&EXPO

Free Virtual event

February 3rd, 2021



HANDS-ON PARALLEL COMPUTING WITH DASK & PANDAS BY DAVID YERRINGTON

Live Training

February 4th, 2021



GETTING STARTED WITH D3.JS FOR DATA VISUALIZATION BY BILL SHANDER

Live Training

February 16th, 2021



ODSC EAST 2021

Virtual Conference

March 30th — April 1st, 2021



ODSC EUROPE 2021

Virtual Conference

June 8th – 10th, 2021



ODSC WEST 2021

San Francisco

November 15th – 18th, 2021





Career Lab & Expo 2021

- ▶ Insights from Career Lab Sessions
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- ▶ Opportunities from some of the hottest Companies in the World

Wednesday, February 3 | 10:30 AM – 4:00 PM EST

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