

AI SKILLS GAP



2.3M TALENT SHORTAGE OF AI JOBS BY **2021**



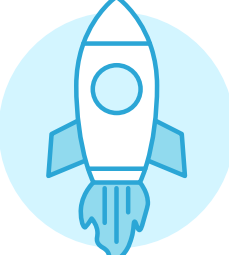
\$12B GLOBAL SPENDING ON AI AND ML TECHNOLOGIES IN **2017**.



4.5x GROWTH IN JOBS REQUIRING AI SKILLS IN THE US SINCE **2013**.



\$57.6B GLOBAL SPENDING ON AI AND ML PROJECTED BY **2021**.



14x GROWTH IN ACTIVE US STARTUPS DEVELOPING AI SYSTEMS SINCE **2000**.



\$6B INVESTMENTS INTO OVER 1,000 AI STARTUPS SINCE **2015**.

SIGNIFICANT AI SKILL SHORTAGE



300K CURRENT GLOBAL AI RESEARCHERS & PRACTITIONERS.



100K CURRENT STUDENTS STUDYING IN AI RELATED FIELDS.



1M CURRENT ESTIMATED NEED FOR AI TALENT POOL

TOP AI SKILLS & JOB REQUIREMENTS

- Designing, training, and improving algorithms
- Productizing research & development
- Strong research skills
- Diverse programming skills
- Ability to apply machine learning to optimize critical business metrics
- Advanced statistical analysis using common tools
- Data mining and data curation
- Experience building and deploying learning models
- Designing statistical tests and perform experiments to measure algorithm performance
- Research and develop advanced prototype hardware and software
- Take new ideas, methods, or models and implement them efficiently using code

TOP 5 MOST COMMON AI CAREERS



1 MACHINE LEARNING ENGINEER



2 ROBOTIC SCIENTIST



3 DATA SCIENTIST

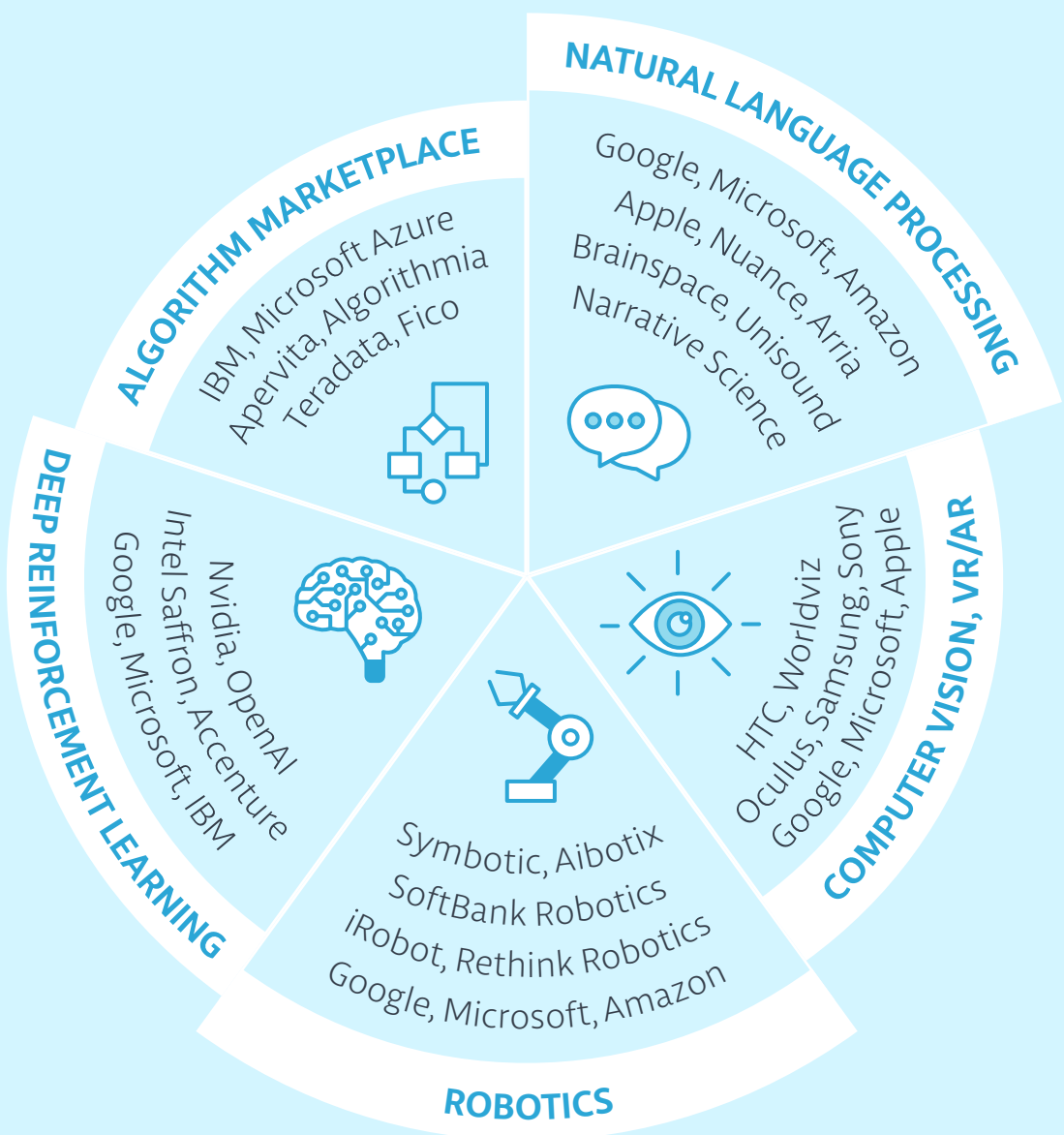


4 RESEARCH SCIENTIST

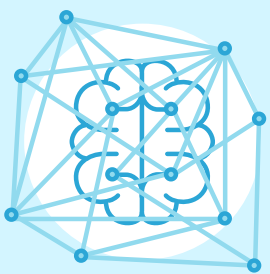


5 BUSINESS INTELLIGENCE DEVELOPER

AI EMPLOYERS BY AI FIELD



TOP SKILLS BY AI FIELD



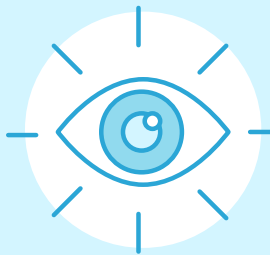
MACHINE LEARNING

Creating machine learning platforms, Optimizing AI hardware, Data science, Data mining, TensorFlow, Theano, PyTorch, SQL



NATURAL LANGUAGE PROCESSING

Natural language generation, Speech recognition, Text parsing and language modeling, Text analytics, OpenNLP, sPaCy, NLTK gensim



COMPUTER VISION

Image processing chains, Signal processing, Digital image processing, Developing computer vision models, Imaging modalities like LiDAR, RGBN, Image detection modeling

TOP AI EMPLOYERS BY HUB

