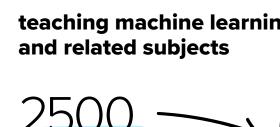
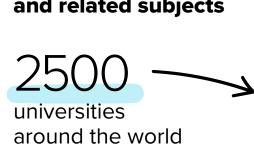
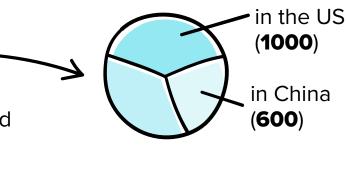
## Facts about Al every developer needs to know before focusing on machine learning

## Universities

teaching machine learning and related subjects









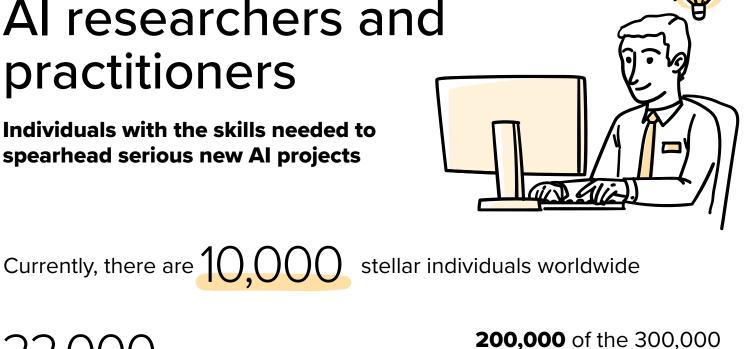
Where experts are working



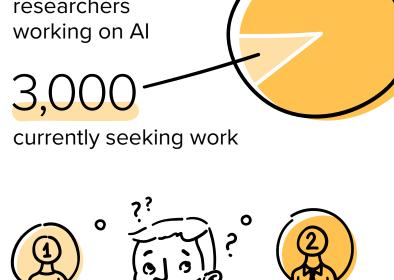
## Individuals with the skills needed to spearhead serious new Al projects

Currently, there are 10,000

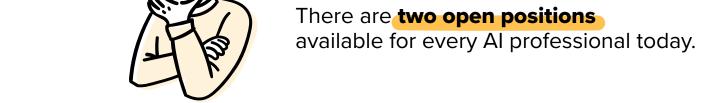
practitioners



22,000 active researchers already employed in various Ph.D-educated industries (not just tech) researchers



100,000 are still studying



**Salaries** 

#### in the U.S. for data scientists, senior data scientists, artificial intelligence consultants,

and machine learning managers.

The median salary is

\$127,000

\$300,000 - \$500,000 / year

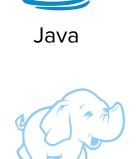


4.5 times since 2013

The share of jobs requiring AI skills has grown

#### **Deep Learning Machine Learning Natural Language Processing (NLP)**





Hadoop

skills and tools for Al?



C++



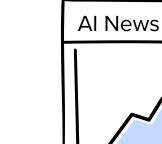




**LISP** 







2025 \$190 billion industry



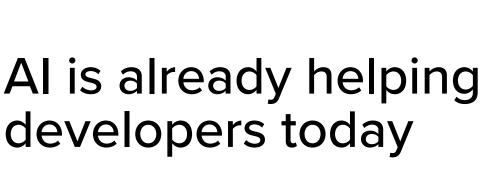
#### **Automated** customer service agents

\$4.5 billion

80% of emerging

technologies will

have AI foundations.



**DeepCode** 

Logojoy

\$2.7 billion

Sales process

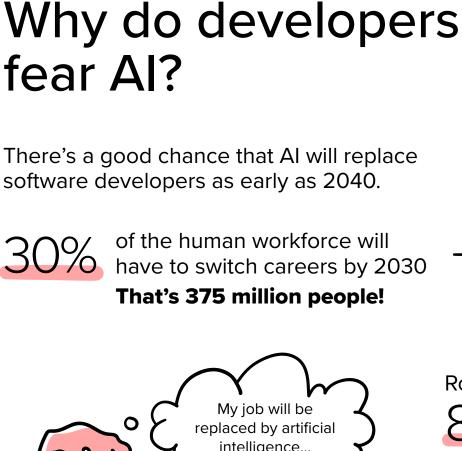
recommendation

and automation



\$2.7 billion

#### **Ulzard** converts handwritten designs into HTML and CSS



analyzes and cleans up existing code

generates logos and simple designs

#### Robotics could replace about My job will be replaced by artificial intelligence... jobs, making about 30% of occupations extinct

of software developers

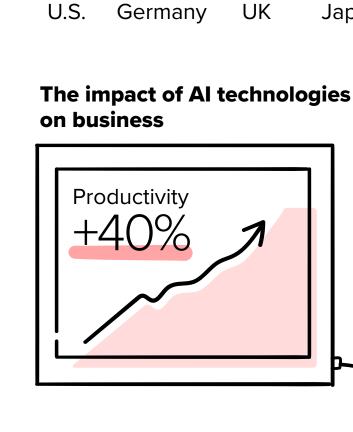
Jobs at high risk of automation 38%

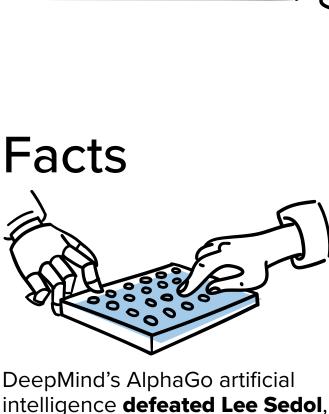
30%

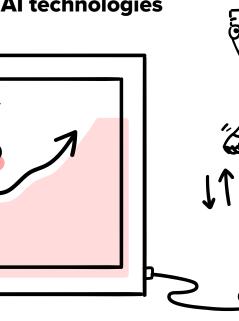
21%

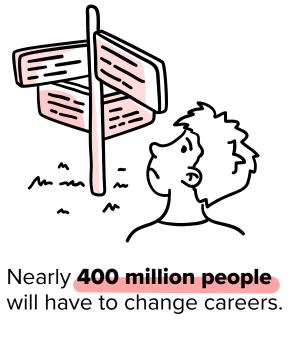
Japan

35%

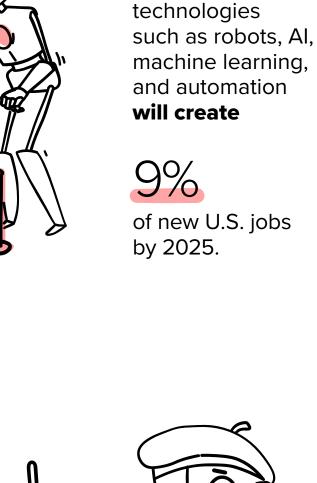








0 million



New York auction house Christie's sold Portrait of Edmond de Belamy,

an algorithm-generated print in the

style of 19th-century European

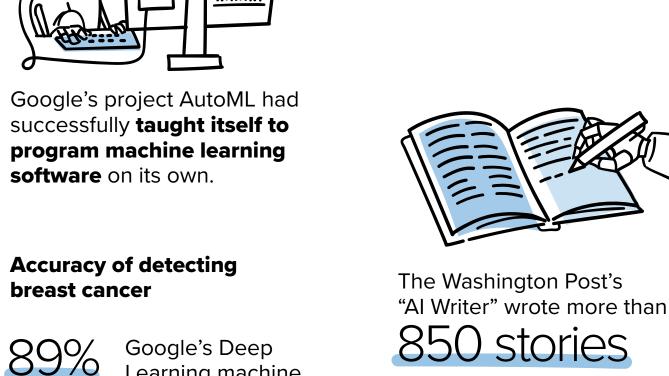
portraiture, for **\$432,500**.

during the Rio Olympics.

Cognitive

# 111111111

the Korean Go champion.



Learning machine

learning program

Human

pathologist

In 2016, TypingDNA's technology

patterns matching algorithms can verify the identity of a user based

solely on their typing behavior.

was launched - Al-based typing

Resources

https://jfgagne.ai/talent-2019/

https://www.typingdna.com/

https://www.epi.org/blog/how-big-is-ai-related-employment-not-that-big-at-all-despite-what-stanfords-ai-index-annual-report -tries-to-claim/ https://www.forbes.com/sites/louiscolumbus/2018/01/12/10-charts-that-will-change-your-perspective-on-artificial-intelligence s-growth/#794fd6a64758 https://www.theverge.com/2017/12/5/16737224/global-ai-talent-shortfall-tencent-report

https://looka.com/logo-maker/

https://www.wired.com/beyond-the-beyond/2019/03/ian-bogost-tackling-generative-adversarial-art/

power-2016-rio-olympics-coverage/ https://slate.com/technology/2017/10/google-created-machine-learning-software-that-can-program-machine-learning-softwa

https://www.washingtonpost.com/pr/wp/2016/08/05/the-washington-post-experiments-with-automated-story telling-to-help-post-experiments-with-automated-story telling-telling-to-help-post-experiments-with-automated-story telling-telling-telling-telling-post-experiments-with-automated-story telling-post-experiments-with-automated-story telling-post-experiments-with-autom

https://betalist.com/startups/uizard https://evansdata.com/press/viewRelease.php?pressID=231 https://www.mckinsey.com/featured-insights/future-of-work/jobs-lost-jobs-gained-what-the-future-of-work-will-mean-for-job s-skills-and-wages https://www.zdnet.com/article/companies-employees-not-quite-ready-for-cognitive-technology-wave-of-robotics-ai-machine -learning/ https://arxiv.org/pdf/1712.00676.pdf https://ai.googleblog.com/2017/03/assisting-pathologists-in-detecting.html

https://slate.com/technology/2016/03/googles-alphago-defeated-go-champion-lee-sedol-ken-jennings-explains-what-that-fe https://www.christies.com/features/A-collaboration-between-two-artists-one-human-one-a-machine-9332-1.aspx https://research.fb.com/facebook-ai-academy/

https://www.tisi.org/Public/Uploads/file/20171201/20171201151555\_24517.pdf https://contech.university/15-unexpected-stats-about-artificial-intelligence/ https://www.gartner.com/en/documents/3875982/100-data-and-analytics-predictions-through-2022 https://www.twice.com/retailing/artificial-intelligence-retail-chatbots-idc-spending https://www.deepcode.ai/

https://www.stateofai2019.com/chapter-6-the-war-for-talent/

https://www.tisi.org/Public/Uploads/file/20171201/20171201151555\_24517.pdf

### Where to get started **FACEBOOK AI** https://research.fb.com/facebook-ai-academy/ Google Al https://ai.google/education/ Stanford https://www.coursera.org/learn/machine-learning **OVIDIA** https://www.nvidia.com/en-us/deep-learning-ai/education/



https://ai.google/education/ https://www.coursera.org/learn/machine-learning https://www.nvidia.com/en-us/deep-learning-ai/education/