Introduction to Kaggle

Great discoveries and improvements invariably involve the **cooperation of many minds.**

— *Alexander Graham Bell*

AZ QUOTES

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Hello!
I am Agil Haykal

I am a Data expert with extensive experience in multiple industries such as marketplace, insurance, banking, general taxation, consulting, and training.

In total, I trained more than 300 data scientists, engineers, and analysts.

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kaggle™

kaggle is the **world's largest data science community** with powerful tools and resources to help you achieve your data science goals.

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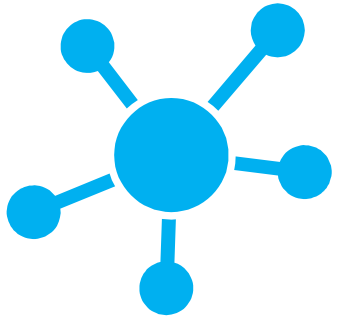
Why do we need Kaggle?



The biggest data science community

Provide data science projects and competitions

Platform discussion from various backgrounds and industries

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History of Kaggle

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- Founded in April, 2010 by **Anthony Goldbloom** and **Ben Hamner**
- In the early establishment, just used as the **platform for data science competitions**
- On 8 March 2017, **Google** announced that they were acquiring Kaggle.
- In June 2017, Kaggle announced that it passed **1 million registered users**, or kagglers. The community spans **194 countries**. It is a diverse community, ranging from those just starting out and many of the world's best-known researchers.

Anthony Goldbloom

Ben Hamner

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What is Kaggle?

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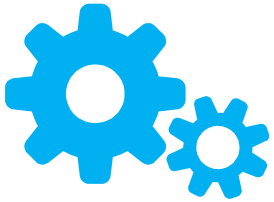
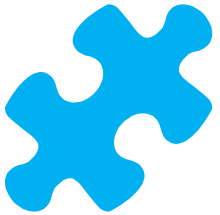
kaggle, a subsidiary of Google LLC, is an online community of data scientist and machine learning practitioners. It allows users to:

Find and publish datasets



Explore and build models



Work collaboratively

Join competitions

Participate in courses

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Find & Publish Datasets

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- Kagglers **share datasets** with each others
- Published datasets are on **various kinds and industries**

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Kaggle Kernels

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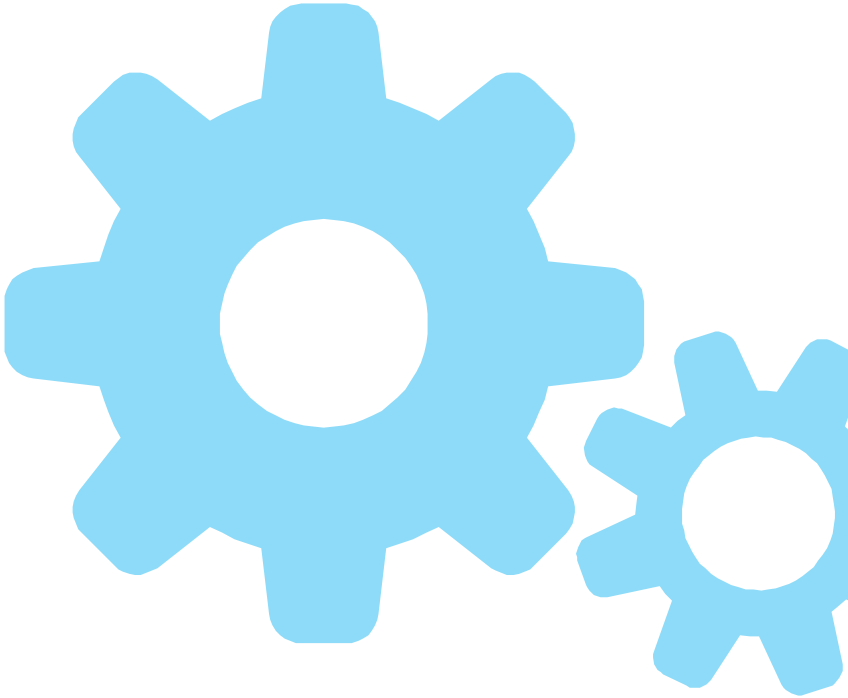
- A **cloud-based workbench** for data science and machine learning

- Allows data scientists to **share code and analysis** in Python, R and R Markdown

- This service provide Kagglers to **explore and build models in collaborative way**



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Join Competitions

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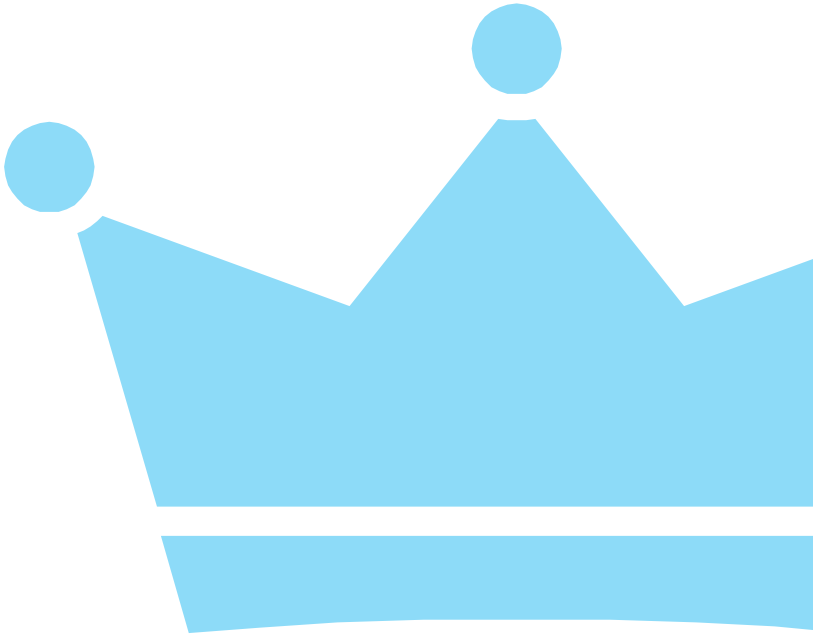
- This is kaggle's **first product**
- Companies **post problems** and machine learners compete to build the best algorithm, typically with **cash prizes**
- Companies can get the **best model by spending enough money and fast duration**
- Novice Kagglers can use this service as the medium for **data science practical learning**



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Discussion Communities

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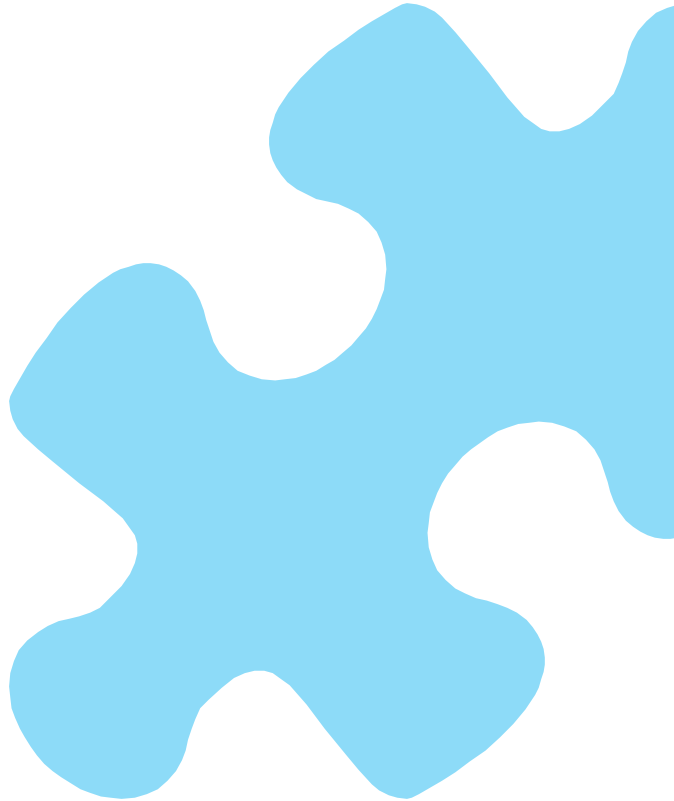
- Communities are a new place on Kaggle to **discover content and engage in discussion** around topics

- Communities including beginner users to TensorFlow, Pytorch topics



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Participate in Courses

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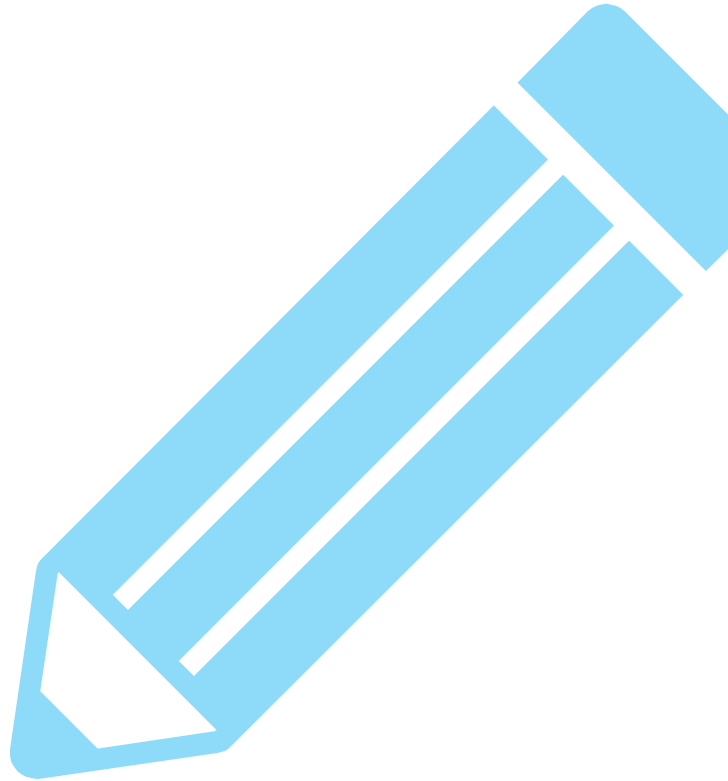
- Additional contents to **learn machine learning** and **AI**
- The courses are **free** and provide **certificates** to be earned
- Including Python, Machine Learning, Data Cleaning, Data Visualization, Pandas, SQL, Computer Vision, NLP, Geospatial Analysis, etc.



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Kaggle Rankings and Progression System

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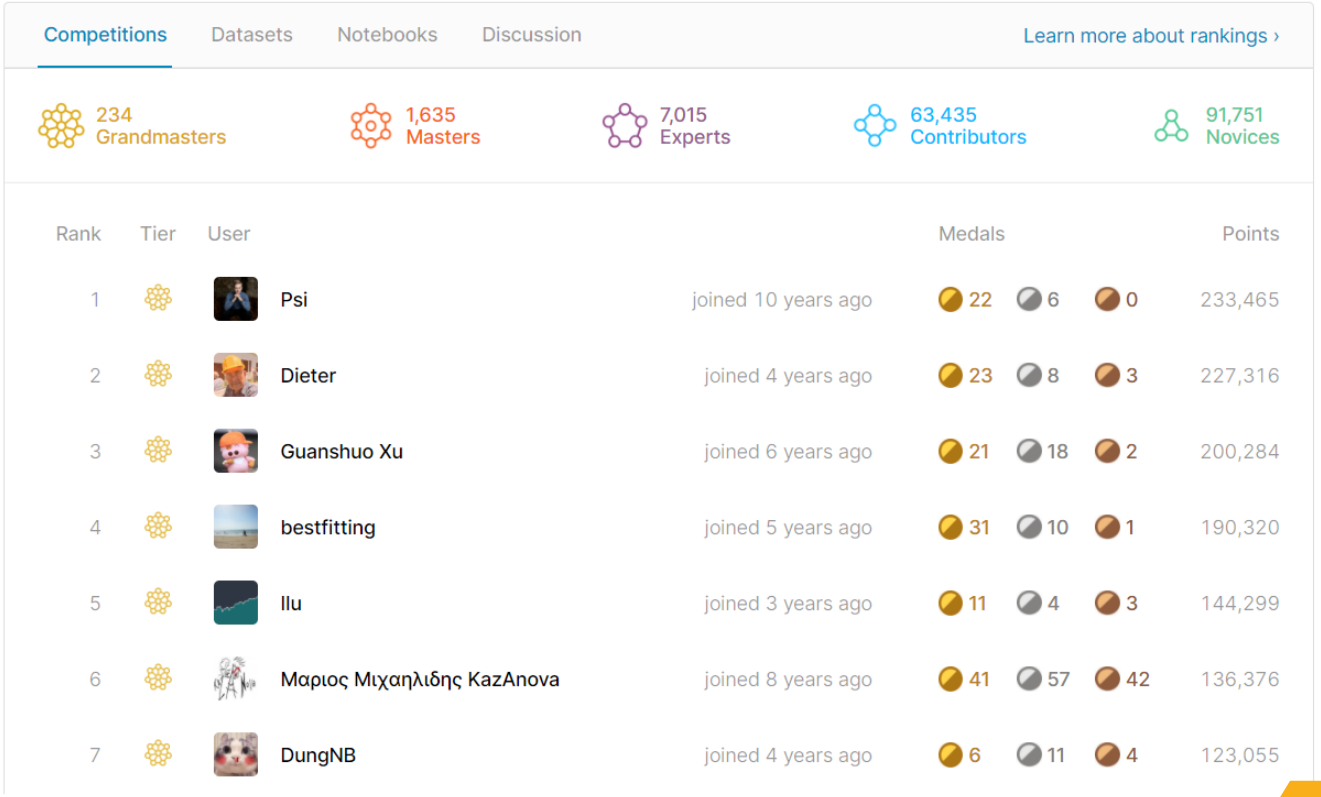
User rankings are separately displayed within competitions, datasets, notebooks, and discussion



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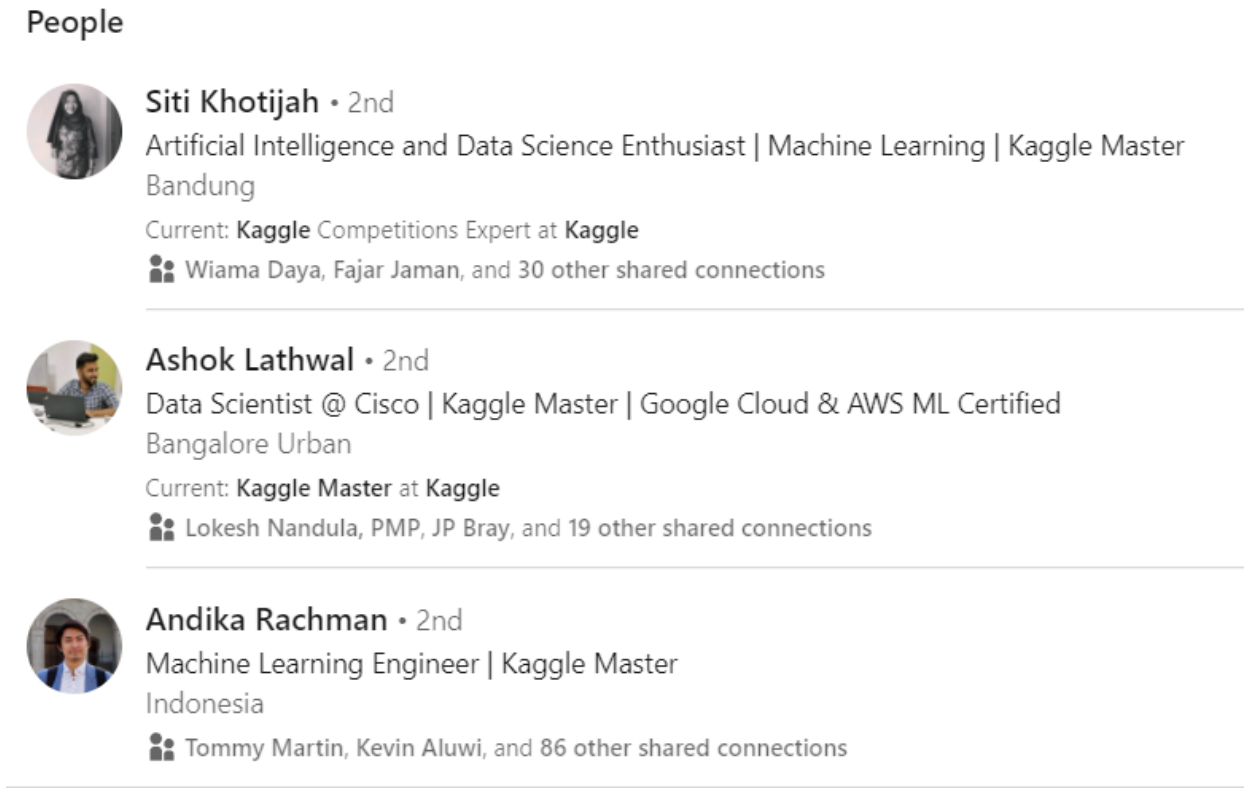
Kaggle Rankings for Personal Branding

People can use it as personal branding at LinkedIn or Resume



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Kaggle Competition

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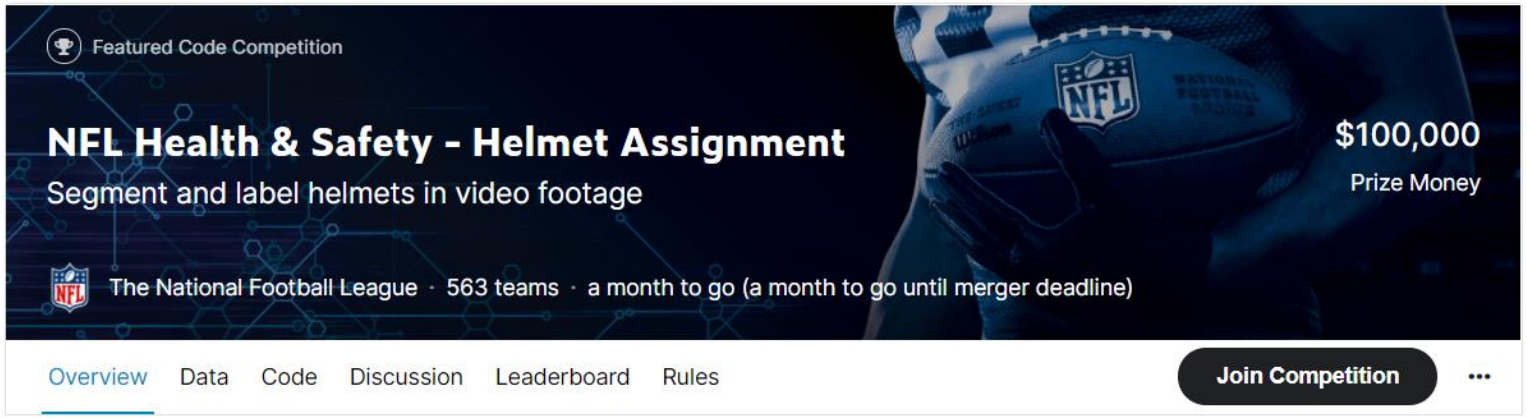
Challenges are not just published with the prize. They are so many challenges with **swag or new knowledge**



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Impact of Kaggle Competitions

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- Improving gesture recognition for Microsoft Kinect
- Improving the search for the Higgs boson at CERN
- COVID-19 case visualization in India
- COVID-19 journal texts exploration
- Shopee – Price Match Guarantee
- Shopee Code League
- BRI Data Hackathon

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Kaggle notebook vs Google Colab

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kaggle colab

Both owned by Google

- Kaggle connected their dataset
- CPU Memory 16GB
- GPU RAM 17GB
- Max Session 9 hrs
- Kaggle Kernels often seem a little laggy.

- colab connected to gdrive
- CPU Memory 14GB
- GPU RAM 12GB
- Max Session 12 hrs
- Authenticate every session
- Can’t unzip files in Drive easily

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Tips on Using Kaggle Services

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- Learn data science basic skills through the courses
- Explore various datasets in any types and business cases
- Understand and dive in the public notebooks in the framework of data science methodology
- Be curious! Join the provided discussion forums as you are interest in
- Participate in competitions starting from the easiest challenge
- Do not be inferior and feel overwhelmed!

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Let's Explore our Dataset!

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Let's Play

Kahoot!

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Thank YOU

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