

Kaggle competition

Separating LHCb b-jets from lighter jets



Kaggle: https://kaggle.com

- Kaggle is a website based around comptetitve category separations
- They host competitions and associated datasets where people are interested in finding patterns
- I set up a private competition for you to try

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kaggle.com/competitions

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All Com	petitions	
Active (N	lot Entered) Completed InClass	All Categories 👻 Default Sort 👻
	Rilid! Answer Correctness Prediction	
	Track knowledge states of 1M+ students in the wild	\$100,000
	Featured + 3 months to go + Code Competition + 690 Teams	•••••
	NFL Big Data Bowl 2021	
BIG DATA	Help evaluate defensive performance on passing plays	\$100,000
ADML.	Analytics • 3 months to go	
-	CDP: Unlocking Climate Solutions	
	City-Business Collaboration for a Sustainable Future	\$91,000
	Analytics • 2 months to go	
	RSNA STR Pulmonary Embolism Detection	
RSNA	Classify Pulmonary Embolism cases in chest CT scans	\$30,000
	Featured - 12 days to go - Code Competition - 597 Teams	
100 C	Lyft Motion Prediction for Autonomous Vehicles	
Concession in	Build motion prediction models for self-driving vehicles	\$30,000
	Featured - a month to go - Code Competition - 617 Teams	
	Mechanisms of Action (MoA) Prediction	
==	Can you improve the algorithm that classifies drugs based on their biological activity?	\$30,000
	Research • 2 months to go • Code Competition • 2538 Teams	
	Google Research Football with Manchester City F.C.	
(((((((((((((((((((((((((((((((((((((((Train agents to master the world's most popular sport	\$6,000
S	Featured • 2 months to go • Simulation Competition • 670 Teams	
	Conway's Reverse Game of Life 2020	
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Swan

everse the arrow of time in the Game of Life

ground + 2 months to go + Code Competition + 107 Teams

Competition link

- https://www.kaggle.com/t/0b9621d4ab9f4fccb265feb195ec8484
- The link above is needed to enter the competition
- The data is available from the competition data tab and also a copy is hosted here: https://hep.ph.liv.ac.uk/~hutchcroft/JetTagging/ (that has the gzipped csv files and so is quicker to download).
- There is an example (bad) NN solution using Keras under public notebooks, also on the local link above, kaggle will run your Jupyter notebooks on their hosts
- Do the best separation your team can, 30% of the data is used for a public leaderboard the results on the other 70% is hidden and use to rank your submissions
- You have up to 20 submissions per team, the deadline is 12:30 BST (11:30 UTC) today
- Good luck!