

Mini-Project

Kaggle & Getting Started

Kaggle.com:

- Register on Kaggle
- Go to competition link
- Team Registration once signed up on Kaggle:

<https://www.kaggle.com/t/3713b8edcaab4ac7ac6045d7353c1aba>

<https://www.kaggle.com/c/acse-module-8-19>

ACSE-Module 8-19
Leaderboard for ACSE-Module 8 ML Competition 2019 / Imperial College London

Host Overview Data Kernels Discussion Leaderboard Rules Team My Submissions

This competition hasn't been launched. Only hosts and Kaggle admins can see it.

Overview Edit

Description

Evaluation

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ACSE-Module 8 Competition Track

Introduction

This is the Kaggle InClass Competition for the Imperial College Applied Computational Sciences and Engineering Master's Course Mini-Project on Machine Learning.

Dataset

The dataset is a version of the Kuzushiji-MNIST
The goal is to score a high accuracy on the prediction of the test set of images.

Submissions

You are allowed two submissions to the leaderboard per day.
The shown leaderboard score is equivalent to 30% of a random subset of the test set.
You are allowed to submit two final versions for scoring on the private leaderboard - this is what you will ultimately be ranked on.

Restrictions

- **Leaderboard:**

- Public: Accuracy evaluated on 30% of test set
- Private: Accuracy evaluated based on other 70% of test set
- Two Submissions per day per team
- Try to beat the GTA solution 😊
- Leaderboard submissions reset at 1 am, but don't work till then
- Thursday, final two submissions selected for private leaderboard score

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Public Leaderboard Private Leaderboard								
This leaderboard is calculated with approximately 30% of the test data. The final results will be based on the other 70%, so the final standings may be different.								
Refresh								
#	Team Name	Kernel	Team Members	Score	Entries	Last		
📍	GTA-Baseline			0.96800				

- Logistics:

- Make team
- At least 1 person/team
- 2 Submissions / day / team
- Use Submissions wisely
- Trust your Cross-validation
- Submissions reset 1 am
 - Don't work till 1 am
- On Thursday:
 - Select best two submissions
 - These two count!
 - -> Private Leaderboard

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Manage Team

Team Name
GTA Save Team Name
This name will appear on your team's leaderboard position.

Team Members
HorizonPicking2k18 (you) Leader

Invite Others
Merge with other teams or invite users to your team by their team name
Team Name
Request Merge

- **Suggestions:**

- Make sure to tick boxes of outline
 - (Report, Reproducibility, Code Sustainability, ...)
- Make sure the basics work:
 - Cross-validation
 - Submission format (.csv file)
 - Plot things where unsure or graph them
 - Build a working model, then expand
- Things to try:
 - Simple Model + Add More Layers
 - Dropout
 - Batch Normalization
 - Data Augmentation
 - Early Stopping
 - Other Optimizers e.g. RMSProp, Adam, SGD+Momentum
 - Transfer Learning
 - Better Network Architectures (as discussed in course): AlexNet-Style Models
- You can use existing code, even from web, but expect to be questioned on everything!
- Consider computational resources e.g. Colab only limited time for training until disconnect

