





Time Item

2:00-2:05 Challenge Description and Dataset

2:05-2:10 Contest Rules

2:10-2:30 Reference Implementation

2:30-5:00 Q + A





- Guess a Pokémon's primary type and secondary type based on an image and a textual description
- Only Gen I Pokémon
- The training set does not contain all 151
 Pokémon; your algorithm needs to work even on unseen data
- This is a multimodal classification problem
- Test set is blind: you do not get to see it

Training Set Stats

- 6175 Samples
- 19 Primary Types
- 19 Secondary Types
- 136 Pokémon
- Average Image Size: 723x723
- Average Description Length: 20 words



Image:



Description:

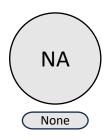
"It swims facing backward by opening and closing its two-piece shell. It is surprisingly fast."

Model Input (x)

Primary Type:



Secondary Type:

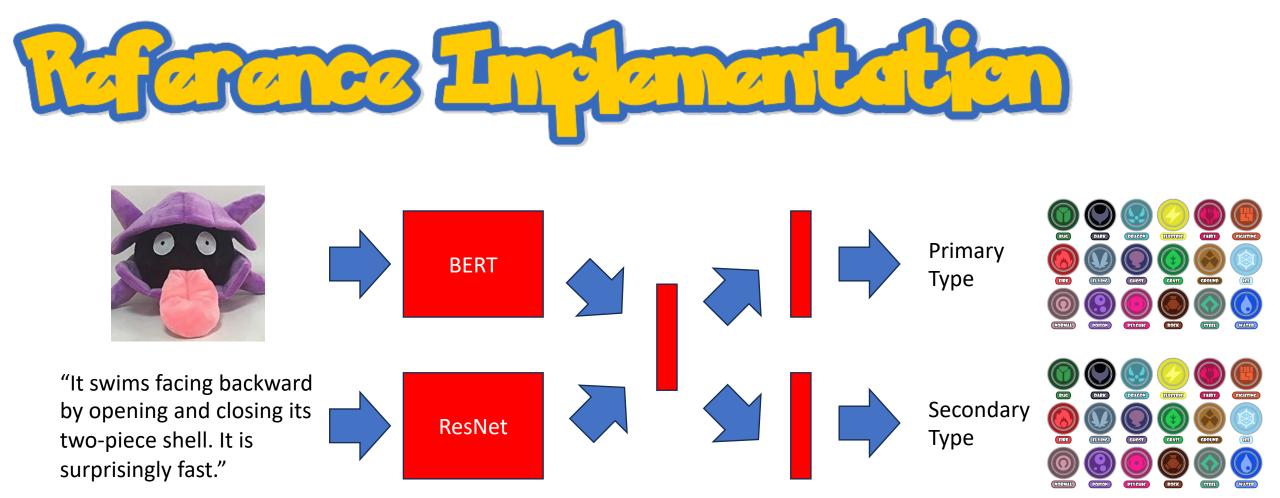


Targets (y)





- You can only use the dataset provided to you. Hardcoding a table of Pokémon names and their corresponding types is forbidden.
- You have until the 23:59 on Saturday (30-Mar-2024) to complete the challenge
- You are allowed to use the Internet, ChatGPT, or any other resources to help you write your code, but you must train your model yourself
- You are allowed to start with a pretrained model, including transformers.
- You must submit both your iPython notebook (*.ipynb) and the weights (*.pt) file by email
- The winner will be the team with the best accuracy on primary type classification, ties will be broken by performance on secondary type accuracy
- You cannot get help from other teams enrolled in the competition
- You cannot get help from student studying computer science or a related field if they are not involved in the competition and enrolled on your team



Fully Connected Layers

- At a minimum you need:
 - Feature extraction
 - Mode combination
 - 2 classification heads

- Feel free to go off the beaten path:
 - How early do you combine features?
 - How deep are your heads?
 - How much processing on the combined feature space?

