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This week, we did our training with the help of fast.ai, the dataset we will use in our project.

According to the definition on Wikipedia: fast.ai is a non-profit research group focused on deep learning and artificial intelligence. It was founded in 2016 by Jeremy Howard and Rachel Thomas with the goal of democratizing deep learning. They do this by providing a massive open online course (MOOC) named "Practical Deep Learning for Coders," which has no other prerequisites except for knowledge of the programming language Python.

As a result of the data we trained, we obtained the results you see below. These results show incorrectly and correctly predicted outcomes. For example, if we look at the first picture, our model guessed the accessory as a personal care item.

Prediction/Actual/Loss/Probability

Personal Care/Accessories / 2.16 / 0.71



Footwear/Accessories / 1.38 / 0.60



Personal Care/Accessories / 1.34 / 0.31



Footwear/Accessories / 0.84 / 0.49



Accessories/Accessories / 0.37 / 0.69



Accessories/Accessories / 0.22 / 0.80



Apparel/Apparel / 0.16 / 0.85



Accessories/Accessories / 0.16 / 0.85



Accessories/Accessories / 0.13 / 0.88



Confusion matrix showing the result of our training is given below. Confusion matrix is a type of matrix used to evaluate the performance of a classification model. Classification algorithms, especially in the context of machine learning and deep learning, attempt to separate a set of labeled examples into classes.

Confusion matrix						
Actual	Accessories	12	0	2	0	2
	Apparel	0	31	0	0	0
	Footwear	0	0	10	0	0
	Free Items	0	0	0	0	0
	Personal Care	0	0	0	0	3
		Accessories	Apparel	Footwear	Free Items	Personal Care
		Predicted				

Link of the code we wrote:

<https://github.com/cihatkayack/Fashion-Project/blob/main/code/fashion.ipynb>