BSYS4205 team project

Phoebe - Describe the dataset

The Fashion MINST dataset is used to train a neutral network model to sort 10 types of fashion items. The dataset consist of 60,000 images for training the network and 10,000 images for evaluating the network’s accuracy sorting the images.

The following is a list of clothing class the image and its corresponding label (0-**9):**

|  |  |
| --- | --- |
| Label | Class |
| 0 | T-shirt/top |
| 1 | Trouser |
| 2 | Pullover |
| 3 | Dress |
| 4 | Coat |
| 5 | Sandal |
| 6 | Shirt |
| 7 | Sneaker |
| 8 | Bag |
| 9 | Ankle boot |

All the images are in the format of 28x28 NumPy arrays, with pixel ranging from 0 to 255. The following is a snapshot of the images the dataset has:

A picture containing text

Description automatically generated

Anamika - Include a sample data in the notebook and explain it

Vaish - Write our project's objective

Hiroko - Explain how the algorithm works

Luciana - Explain the hyper parameters

our project's objective

The purpose of our presentation is to provide a basic overview on what Machine Learning is, for someone that has minimal knowledge on this subject.

We will achieve this by walking you through the process of training a neural network model on the classification of various fashion images including clothing, shoes. Once we have trained the model, our team will assess errors and accuracy. The final step will be to utilize our trained model to make predictions.