CYBERLAB PROJECT

**ML BOOTCAMP**

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# Introduction

To create and train a machine learning model which predicts data from a given data set.

## Methods used

1. **Linear regression**- A data set was given which had 20 features, the model was required to learn from the given data set and predict the correct output according to the given test data set.(Normal equation used)
2. **Polynomial Regression**- A data set was given which had 3 features, the model was required to learn from the given data set and predict the correct output according to the given test data set.(Normal equation used)
3. **Logistic Regression**- A data set was given which contained text data of several images which resembled 10 different fashion items. The model was required to learn to classify the different items into their respective categories.
4. **Neural Network**- The image dataset prediction model needed to be improved using the neural network concept.

### Accuracy achieved

1. **Linear regression-** approx 84% on cross validation dataset(20% of original dataset)
2. **Polynomial Regression-** approx 89% on cross validation dataset(20% of original dataset)
3. **Logistic Regression*-*** approx 84% on cross validation dataset(20% of original dataset)
4. **Neural Network**- approx 84% on cross validation dataset(20% of original dataset)