Module 2: Understanding Neural Networks with Tensorflow

Assignment

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Assignment

Install TensorFlow on your system, after installing the framework, Solve the below mentioned problem statement.

A Prime equity fund has hired you as a data scientist to analyse the data of 50 potential investee companies and create a model that will find the type of companies that he should invest in to maximize the profit.
They want to see which types of companies perform better, for eg - a company which spends on marketing or which spends more on R&D.

R&D Spend	Administration	Marketing Spend	State	Profit
165349.2	136897.8	471784.1	New York	192261.83
162597.7	151377.59	443898.53	California	191792.06
153441.51	101145.55	407934.54	Florida	191050.39
144372.41	118671.85	383199.62	New York	182901.99
142107.34	91391.77	366168.42	Florida	166187.94
131876.9	99814.71	362861.36	New York	156991.12
134615.46	147198.87	127716.82	California	156122.51

The dataset can be downloaded from the link:
www.edureka.co/medias/fohk3v2vso/download?media_file_id=218717198

Column information:

- R&D spend - Research and Development expenditure of respective company.

- Administration - Administration expenditure of respective company.

- Marketing Spend - Marketing Spend of respective company.

- State - Location of company.

- Profit - Annual profit of respective company.

Perform the following tasks on the dataset

Task 1: Install TensorFlow on your system

→ Run a hello world command

Task 2: Train a **linear regression** model,

→ Train the linear regression model using training set

→ Test the created model using testing set