The Sparks Foundation Internship Tasks

This repository consists of the tasks given during my internship at The Sparks Foundation.

About The Sparks Foundation

The Sparks Foundation mission is to inspire students, help them innovate, and let them integrate to build the next generation humankind. To inspire, motivate, and encourage students to learn, create, and help build a better society. To teach new ways of thinking, to innovate and solve the problems on their own. We help the students to integrate and help each other, learn from each other, and do well together.

Their Vision Statement: A world of enabled and connected little minds, building future. Our Mission Statement To inspire students, help them innovate and let them integrate to build the next generation humankind.

TASKS

Task 1 - Exploring Supervised Machine Learning

- In this regression task we have to predict the percentage of marks that a student is expected to score based upon the number of hours they studied.
- This is a simple linear regression task as it involves just two variables. Data can be found at http://bit.ly/w-data.
- What will be predicted score if a student study for 9.25 hrs in a day?

Task 2 - Exploring Unsupervised Machine Learning

- In this task we have to predict the optimum number of clusters for the given iris dataset and represent it visually.
- This is a Unsupervised Machine Learning Task implemented using K nearest Neighbor. Data can be found at https://bit.ly/3kXTdox.
- From the given 'Iris' dataset, predict the optimum number of clusters and represent it visually.