

Project Proposal

This report is one of the T5 Bootcamp requirements.
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What are the factors affecting promotion?

Recently, we notice the high competition between people at work to get the promotion, and some may ask what are the factors that affect whether a person can get a promotion or not.

In this study

- Predict whether a person will get a promotion or not.
 - We will help to know the factors influencing the promotion.
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Dataset

To achieve the goal of this study the dataset **Awesome HR Data Visualization & Prediction** will be used. This dataset can be found at **Kaggle**

The dataset is available as the .csv file. a sample of data is shown in the following :

Columns:

- **employee_id**
- **department**
- **region**
- **education**
- **gender**
- **recruitment_channel**
- **no_of_trainings**
- **age**
- **previous_year_rating**
- **length_of_service**
- **KPIs_met >80%**
- **awards_won?**
- **avg_training_score**
- **is_promoted**

- We use features such as the is_promoted, the education It contains the educational level , length_of_service.
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Tools

There are tools that will be used to achieve the goal of this study, such as: TensorFlow, matplotlib, pandas, Random first for discovering the data and train a model. The work will be done through Jupyter notebook.

To Do

Explore the data ,clean, classification then crate a model to fit the data ,train ,test and visualization it .

NOTE: the used features may be increased or changed and the model as well.

