Project Title :

Job Recommender

Technologies: NLP, Deep Learning

Group 15 : Team members

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Problem Statement and Motivation

- Traditionally, job suggestion has been thought of as a filter-based match or a recommendation based on the characteristics of positions and candidates as independent entities.
- We can apply this approach that uses machine learning to utilise the advancement of applicant job selection.
- Additionally, we can propose some suggestions which are made up of multiple recommendations that are beneficial for the end user.
- Our Goal here is to create a machine learning model using NLP techniques to find the best job that is suited for the employee based on his skills/profile.

Supporting articles/papers/open source project for the job recommender project using NLP and Deep Learning.

- Job Recommender systems using NLP
- Training deep Neural Networks
- Neural Architectures for Named Entity Recognition
- Teaching machines to read
- Natural Language Understanding
- Natural Language Processing (almost) from Scratch
- TensorFlow API Documentation
- Keras API reference

Project Modules

- **Web Scraping:**

We will be creating the dataset by scrapping from different platforms like Glass Door, LinkedIn, Naukri etc.

- **Data Cleaning/Transformation:**

We will scrape the raw data using Webdriver and later transform this data into useful format by using preprocessing techniques and NLP techniques.

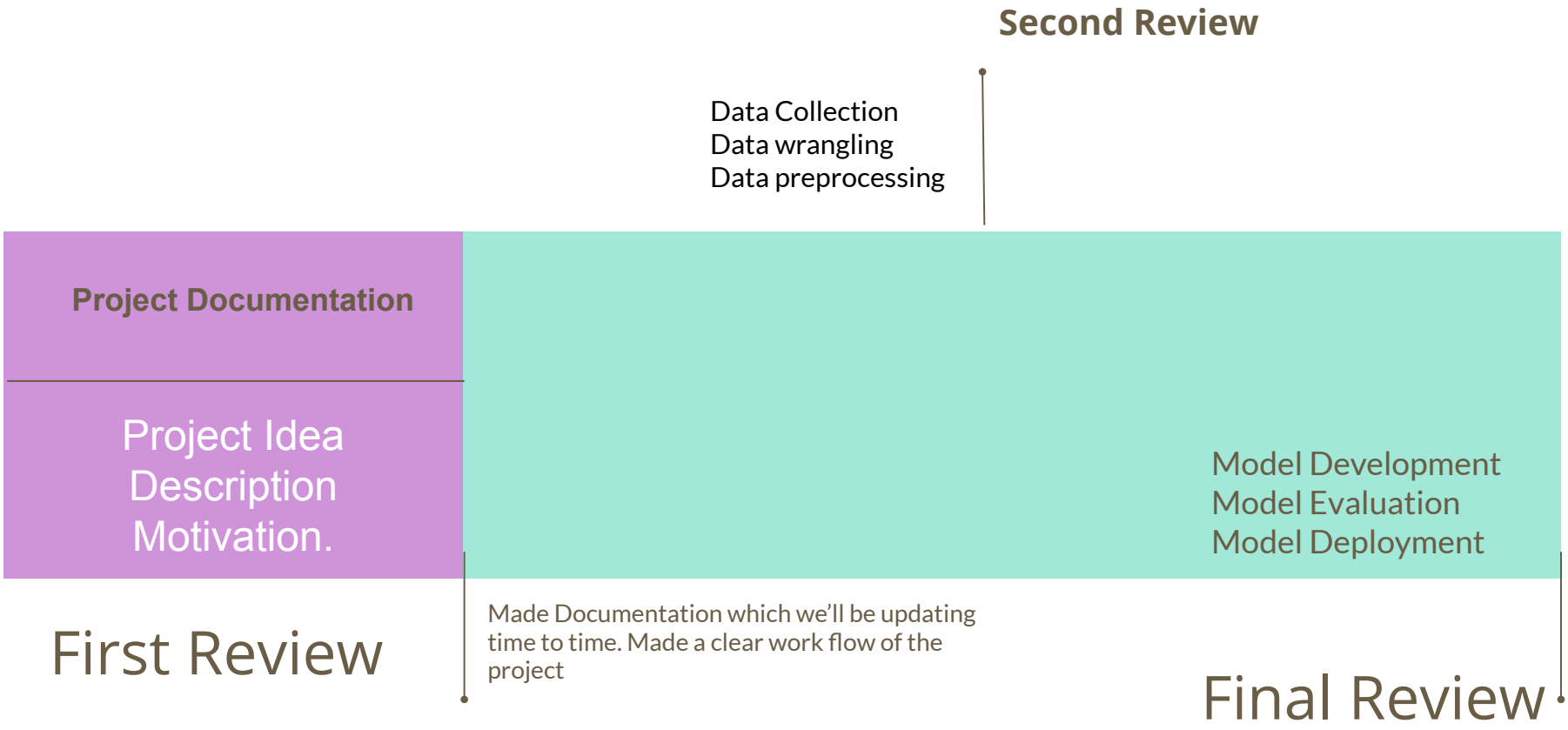
- **Model Development/Evaluation using Neural Networks:**

In this module, we create our own neural network using the tensorflow and keras library and train the neural network on the data filtered.

- **Testing and Deployment:**

In this module we test our model's results and try to improvise the model using parameter tuning.

Work Plan :


Second Review
Data Collection
Data wrangling
Data preprocessing
Project Documentation
Project Idea
Description
Motivation.
Model Development
Model Evaluation
Model Deployment
First Review
Made Documentation which we'll be updating time to time. Made a clear work flow of the project
Final Review