**Project 3 (Golden Project)**

**Building a Resume Parser Using NLP (Spacy) and Machine Learning**

**Project Description :**

Gone are the days when recruiters used to manually screen resumes for a long time. Sifting through thousands of candidates' resumes for a job is no more a challenging task- all thanks to resume parsers. Resume parsers use machine learning technology to help recruiters search thousands of resumes in an intelligent manner so they can screen the right candidate for a job interview. In this data science project, you will build an NLP algorithm that parses a resume and looks for the words (skills) mentioned in the job description. You will use the Phrase Matcher feature of the NLP library Spacy that does "word/phrase" matching for the resume documents. The resume parser then counts the occurrence of words (skills) under various categories for each resume that helps recruiters screen ideal candidates for a job.

**Steps performed in this project are :**

* **Understanding the problem statement**
* **Analysing the dataset**
* **Performing TextMining namely removing punctuations, Tokenization, Pos-tagging, Removing Stopwords , Lemmatization, Finding Noun phrases & verbs in the given data**
* **And filtering the resumes which have more number of matching phrases**
* **Finding key conclusions based on model performance**

**Programming Language Used :Python**

**Software Used : Google Colab**

**Libraries Used : pandas,spacy,nltk,matplotlib,string,re**