

## **Project Proposal**

Group Name: Natural Language Processing Engineer

Specialization: Natural Language Processing

Topic: Resume Extraction

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**Problem Description:** Natural Language Processing is the application of computational techniques to the analysis and synthesis of natural language and speech. As such, this field is very important to a large number sectors, in particular those dealing with extensive bureaucratic processes. In particular, in this project, we want to work on automating resume information extraction.

**Business Understanding:** With regard to the importance of automating resume processing in business, there are various undeniable advantages. The Human Resources department (HR) of most companies are in dire need of increasing efficiency. Indeed, because they can get large amounts of candidates after posting a job offer, it is important to be able to rapidly select the relevant ones without wasting weeks. According to Indeed, job applicants wait up to two weeks to hear back from a prospective employer. Therefore, a tool as such is beneficial for the overall productivity of a company.

**Project Lifecycle:** As with data-intensive projects, it is important to take relevant steps such as: Data Collection, Data Processing and Cleaning, Visualization, Model Selection, Training, Testing and Deployment. As for the deadlines, those of the curriculum are adequate.