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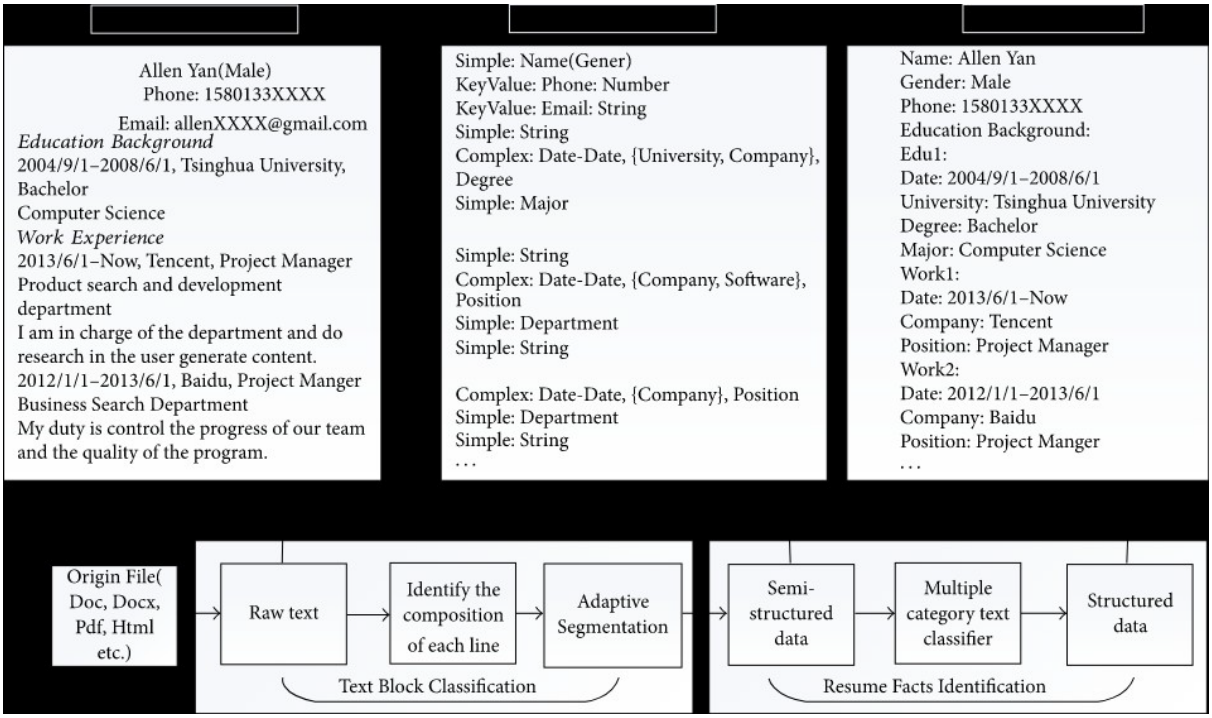
College: Fullstack Academy

Specialization: NLP

Problem description:

Resumes contain information irrelevant to the HR/authority, and they must manually process the resumes to shortlist the promising candidates. Furthermore, this makes the shortlisting task a herculean task for HR. Using the NER (Named Entity Recognition) model of NLP, this problem can be solved by finding and classifying the entities present in each resume into predefined classes such as person name, college name, academic information, relevant experiences, skill set, etc.



Business understanding:

Business objectives:

This project is dedicated to HR managers to help them:

- Converting hours of labor into seconds.
- Increase recruiters' efficiency and availability.
- Reducing the need for more employees.
- Avoiding errors.

Data science objectives:

- Identifying suitable technologies for our business objectives.

- Training and deploying fast and efficient Deep Learning models.

Project plan:

Data Glacier has provided the dataset (JSON format).

One person will work on this project for one month.

Code (Jupiter notebooks), PowerPoint presentation, and a final report will be delivered by the deadline of this project.

The NER (Named Entity Recognition) model of NLP will be used to sort and classify resumes.

Key results:

An efficient NLP model used for resume sorting and classifying with high accuracy should be delivered by the end of this project.

(Model deployment through a Flask web app, if possible before the deadline)

Project lifecycle along with deadlines:

Business understanding: 09/10 -> 09/17

Data exploring and understanding: 09/17 -> 09/24

Data Cleansing and Transformation: 09/24 -> 10/01

Presentation and proposed modeling techniques: 10/01 -> 10/08

Model Selection and Model Building: 10/08 -> 10/15

Final presentation and report: 10/15 -> 10/22

Data Intake Report:
https://drive.google.com/file/d/1URkbUVU01eQbJ7GkKFyMuY-wrw9Aj_iP/view?usp=drive_link

GitHub Repo link: https://github.com/colla00/NLP-Resume-Extraction-Project