



**revelio labs**



# Resume Revealer

**By: Unstable Diffusers**

**Track Name: Reveilo Labs**

**Host Institute: Nirma University**

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# PROBLEM STATEMENT

- **Primary Challenge:** Develop a comprehensive resume parser, "ResumeRevealer," capable of extracting detailed information from resumes in various formats (PDF, JPG, HTML, DOC, etc.). The parser should accurately classify text into distinct sections (e.g., education, work experience, skills) and sequence them based on dates, where available.
- **Standardization Challenge:** Enhance the "ResumeRevealer" to standardize different job titles and occupations against the O-NET database, ensuring a consistent taxonomy across parsed resumes.
- **Skill Extraction Challenge:** Implement an advanced feature in "ResumeRevealer" that mines detailed skills and competencies from project descriptions and position roles within the resume, highlighting the candidate's specific abilities and expertise. Abstractive skill extraction is a bonus.



# INTRODUCTION

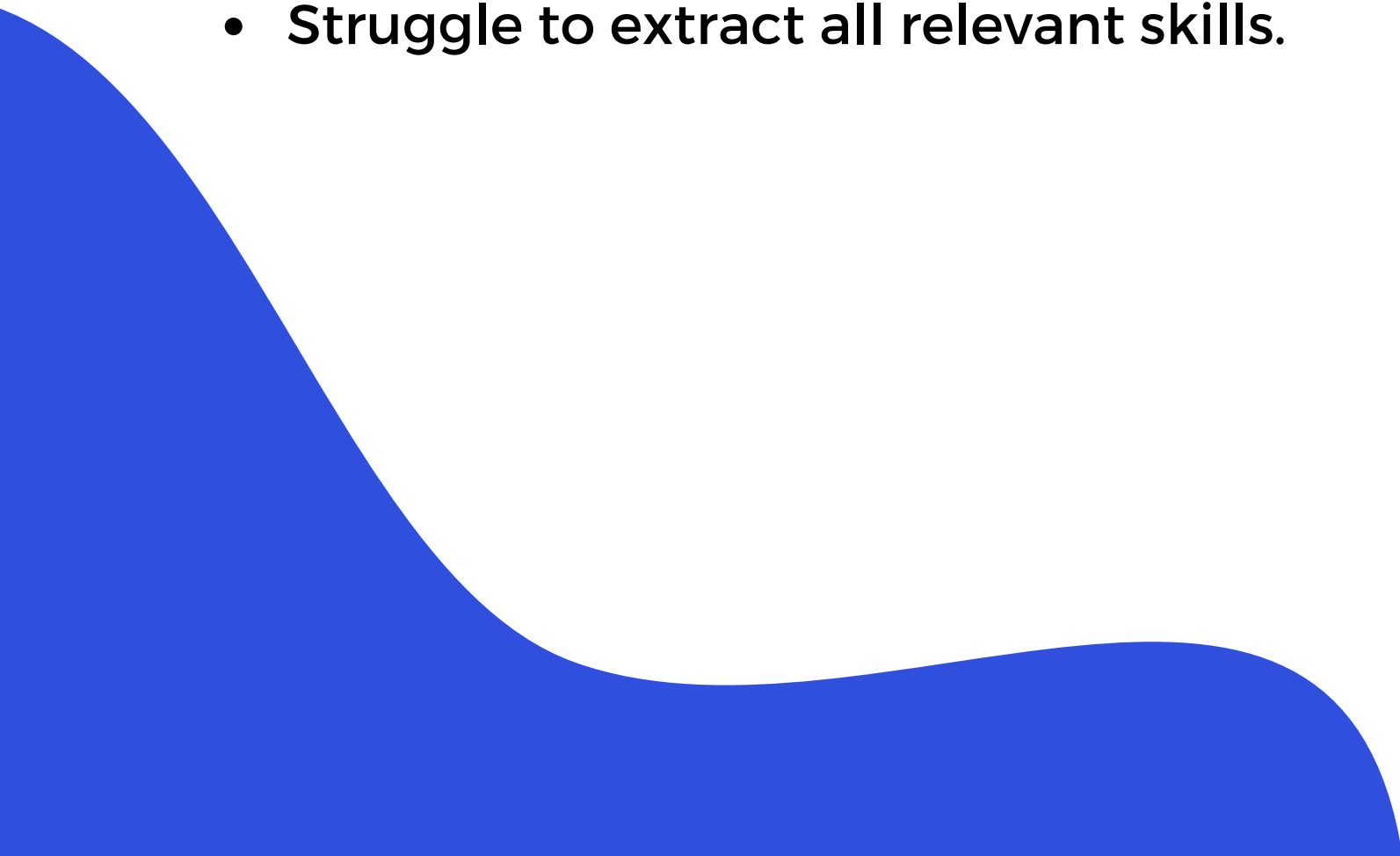
## **Need**

Traditional resume processing methods have many flaws like:

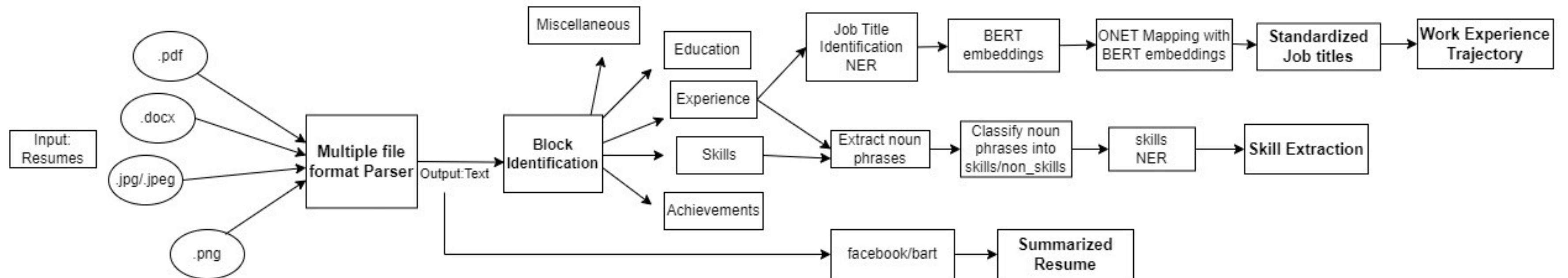
- A lot of manual work,
- Inconsistent,
- Biased,
- Struggle to extract all relevant skills.

## **Solution**

**Resume Revealer** is a transformative tool that

- Automates parsing,
  - Standardizes terminology,
  - Mitigates bias,
  - Comprehensive skill extraction
  - Enhances efficiency & promotes fairness
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# PROPOSED APPROACH



# WHY CHOOSE OUR APPROACH

- **API Independency:** By eliminating the need for third-party services, organizations can reduce reliance on external vendors, maintain data privacy, and lower operational costs associated with API usage
- **Minimum Resource Requirements** making it cost effective and efficient. With optimized algorithms and efficient processing techniques, it can run smoothly on standard hardware configurations without the need for extensive computational power or storage resources.
- **Extensive Standardization:** Our model can standardize skills into 923 classes across various fields. This extensive standardization ensures consistency and clarity in skill identification, making it easier to compare and evaluate candidates
- **Two-Step Skill Extraction Process:** Our model employs a sophisticated two-step skill extraction process to achieve high accuracy and precision. By utilizing Part-of-Speech (POS) tagging and noun phrase extraction, we identify skills and experiences both explicitly and implicitly from resumes. This initial step is further enhanced by employing Named Entity Recognition (NER), which recognizes specific entities such as job titles, and Designation. This dual approach ensures thorough and accurate extraction of skills.



# **LIMITATIONS**

- Non-Standard Resume Formats
- Resumes in different languages
- Highly Specialized Industries
- Evolution of Job Market Trends
- Complex Work Histories
- Sensitive Information Handling



**DEMO**

Youtube Link

# REFERENCES

## HUGGING FACE

Extracted the bert embeddings from [here](#) to use it in our model

## FACEBOOK BART

It is used for resume summarization