

Resume Parser using NLP

Automating Resume Analysis with Natural Language Processing.

This presentation outlines the development of a resume parser using NLP techniques, its objectives, the technologies used, challenges faced, and potential future enhancements.



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Project Objective

Goal

Extract structured data from unstructured resumes.

- Name
- Email
- Skills
- Work Experience

Use Cases

- Automate screening
- Save time
- Assist HR teams



Automate resume screening to improve HR efficiency and accuracy.



NLP Library

Regular Expressions

Pattern Matching

1 2

Tokenization NER Text Preprocessing



Challenges & Solutions



Resume format variations



Inconsistent terminology

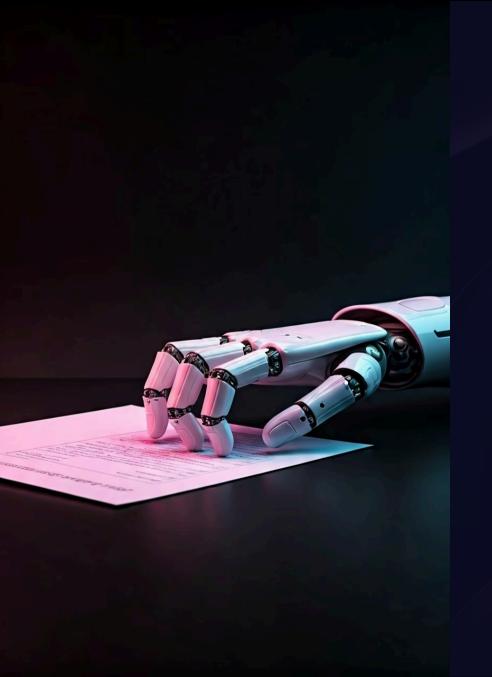
Standardized patterns and templates.

Controlled vocabularies.



OCR issues

Preprocessing techniques to improve accuracy.



Outcome & Suggestions

- Faster analysis
 - Automated workflow
 - Consistent results

ML-based NER

Enhance NER accuracy.

Confidence scoring

Assess extraction reliability.

Multilingual support

Expand language capabilities.



Next Steps



API Integration

Integrate for real-world deployment



Multilingual Support

Expanding language options



ML-based NER

More accurate resume analysis