SUMMER TRAINING/INTERNSHIP

PROJECT REPORT

(Term June-July 2025)

(Resume Screener / Checker)

Submitted by

Shriom

Registration Number: 12408089

Course Code: CSE Summer Training

Under the Guidance of

Mr. Mahipal Singh

School of Computer Science and Engineering

CERTIFICATE

This is to certify that Shriom (Reg. No: 12408089) has successfully completed their Summer Training project titled "Resume Screener / Checker" during the term June-July 2025 under the supervision of Mr. Mahipal Singh.

ACKNOWLEDGEMENT

I would like to express my sincere gratitude to my mentor, Mr. Mahipal Singh, for his continuous support and guidance throughout this project.

TABLE OF CONTENTS

CHAPTER 1: INTRODUCTION

This chapter introduces the Resume Screener project, its objectives, and relevance in real-world scenarios.

Company Profile: NA (Independent Project)

Training Domain: Artificial Intelligence / NLP

Objective: To develop a system that can automatically screen and evaluate resumes based on job criteria.

CHAPTER 2: TRAINING OVERVIEW

Tools & Technologies Used: Python, NLTK, spaCy

Areas Covered: Text Preprocessing, Resume Parsing, Keyword Matching, Scoring

Summary: Weekly tasks involved designing parsing logic, scoring mechanism, and UI development.

CHAPTER 3: PROJECT DETAILS

Title: Resume Screener

Problem Definition: Automate the resume shortlisting process based on predefined criteria.

Scope: Useful for HR teams to reduce manual filtering.

System Requirements: Python 3.x, Libraries - NLTK, spaCy

Architecture: Input Resume → Parser → Matcher → Score Generator → Output Result

CHAPTER 4: IMPLEMENTATION

Methodology: The system parses resumes using NLP techniques, extracts key information, and scores them.

Screenshots and code can be provided on request.

CHAPTER 5: RESULTS AND DISCUSSION

Output: Ranked resumes based on skill-job match.

Challenges: Parsing inconsistencies, varied formats.

Learnings: Improved understanding of NLP and Python libraries.

CHAPTER 6: CONCLUSION

This project enhanced practical skills in AI/NLP and demonstrated the feasibility of automated resume screening.

CHAPTER 2 (Continued): WEEKLY WORK SUMMARY

Week 1

In Week 1, I focused on the following tasks:
- Understanding the resume structure and common formats
- Developing parsers using Python libraries
- Creating regex-based extractors
- Evaluating outputs and improving accuracy

Each week involved testing, debugging, and validating multiple resumes to improve the matching logic.

Week 2

In Week 2, I focused on the following tasks:
- Understanding the resume structure and common formats
- Developing parsers using Python libraries
- Creating regex-based extractors
- Evaluating outputs and improving accuracy

Each week involved testing, debugging, and validating multiple resumes to improve the matching logic.

Week 3

In Week 3, I focused on the following tasks:
- Understanding the resume structure and common formats
- Developing parsers using Python libraries
- Creating regex-based extractors
- Evaluating outputs and improving accuracy

Each week involved testing, debugging, and validating multiple resumes to improve the matching logic.

Week 4

In Week 4, I focused on the following tasks:
- Understanding the resume structure and common formats
- Developing parsers using Python libraries
- Creating regex-based extractors
- Evaluating outputs and improving accuracy

Each week involved testing, debugging, and validating multiple resumes to improve the matching logic.

Week 5

In Week 5, I focused on the following tasks:
- Understanding the resume structure and common formats
- Developing parsers using Python libraries
- Creating regex-based extractors
- Evaluating outputs and improving accuracy

Each week involved testing, debugging, and validating multiple resumes to improve the matching logic.