# Resume ATS Score Checker Project

Build an multi agent design using your favourite framework for Resume ATS Scorer project.

The core components we want build:

- **Resume Parser**: Extract text from uploaded resume files (PDF, DOCX, HTML)

- **Resume Keyword Analyst**: Extract keywords from uploaded resume

- **Job Description Parser**: Extract key requirements from job postings(***Naukri, LinkedIn etc***)

- **Matching Algorithm**: Compare resume content against job requirements

- **Scoring System**: Generate a numeric score based on keyword matching and formatting analysis

## Multi-Dimensional Scoring Approach

The scoring system(**TOTAL SCORE = 100**) uses a multi-dimensional approach that evaluates:

1. **Content Match**: How well the resume content matches job requirements

2. **Format Compatibility**: How well the resume format works with ATS systems

3. **Section-Specific Scores**: Targeted scores for key resume sections

4. **Combined Overall Score**: A weighted combination of all dimensions

**Create a document explaining the scoring mechanism with examples.**

- **Recommendation Engine**: Suggest improvements & feedback to increase ATS compatibility

## Agent Frameworks

- Use **CrewAI** version = 0.108 and **Pydantic V2** = 2.11

Coding Rules

Project Rules:-
- Add Docker File also
- Use Python 3.12
- Add the requiremnts.txt file also
- Add proper Logging Module for Log Tracing
- Follow all pep8 rules of Python
- Follow Modular Coding approaches
- Build scalalbe Restful APIs using FASTAPI
- Create a PYPI python package
- Dockerize the app & upload image in DockerHub public Repo