



HR-Tech Innovation Challenge: Al-Powered Resume Screening & Employee Engagement Analysis

Problem Statement

In this assignment let's aims to automate two critical HR processes:

- 1. **Resume Screening:** Develop an AI tool to filter resumes for a "Software Engineer" role by matching skills, experience, and qualifications from job descriptions.
- 2. **Employee Sentiment Analysis:** Analyze employee feedback (e.g., surveys, exit interviews) to predict attrition risks and recommend engagement strategies.

Your Task:

- 1. Use **Azure Al Studio** or **Google Al Studio** to build and deploy models for the above tasks.
- 2. Apply **prompt engineering** to optimize outputs from large language models (LLMs) for accuracy and relevance.
- 3. Propose a detailed technical approach, including data pipelines, model selection, and integration strategies.

Deliverables

1. Technical Report (PDF):

- o Problem understanding and proposed solution.
- Workflow diagram of your Al pipeline.
- Details of prompts designed for LLMs (e.g., GPT-4) to extract resume keywords or analyze sentiment.
- Screenshots of your Azure/Google Al Studio workspace (model training, deployment).
- o Challenges faced and how you resolved them.

2. Code & Deployment (Bonus):

- Clean, documented code for data preprocessing, model training, and inference.
- o Deploy at least one model as an API endpoint using Azure/Google AI Studio.

3. Presentation (5-7 slides):

Summarize your solution, results, and business impact.

Submission Guidelines

- 1. Submit a ZIP file containing:
- 2. Technical report (PDF).
- 3. Code files (Jupyter Notebooks, Python scripts).
- 4. Presentation (PDF/PPT).
- 5. API endpoint link (if deployed).
- 6. Deadline: 7 days from assignment receipt.

Note: Plagiarism or use of pre-built solutions (e.g., Copying GitHub repos) will result in disqualification.

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