

Project Brief: AI Job Ad Generator

Project Title: AI Job Ad Generator

Project Overview:

The **AI Job Ad Generator** is a web-based application designed to assist recruiters, HR professionals, and business owners in creating well-structured and optimised **job descriptions** for various roles. By allowing users to input key hiring criteria - such as **role type, education requirements, skills, experience, and preferred attributes** - the AI will generate a **clear, professional, and engaging job advertisement** tailored to the user's specifications.

This tool streamlines the process of crafting job postings, ensuring that descriptions are **attractive, inclusive, and aligned with industry standards**, while also enhancing efficiency by eliminating manual drafting.

Objectives:

1. Provide configurable options for users to customise job ad generation, including role type, education, skills, experience, and preferred attributes.
2. Utilise AI-powered text generation to create well-structured, engaging, and professional job postings.
3. Ensure industry relevance by formatting job descriptions in alignment with common hiring standards.
4. Offer customisation features so users can adjust tone, wording, and role-specific details.
5. Implement copy-to-clipboard and export options for easy use in hiring platforms or company websites.

Key Features:

1. **Dynamic Job Ad Generator:** Users enter **key hiring criteria**, and AI crafts the job description based on best practices.
2. **Role Configuration:** Users can select **role type, required qualifications, experience level, key skills** and more.
3. **Preferred but Not Required Skills:** Allows users to specify additional desired attributes.
4. **Customisable AI Output:** Users can refine the generated job description before finalising.
5. **Copy & Export Options:** Job postings can be **copied to clipboard** or **downloaded as PDF** or **text files**.
6. **Optimised for Hiring:** Ensures job descriptions are **structured, engaging**, and **easy to read** for applicants.

Technical Specifications:

1. **Programming Language:** Python
2. **Frameworks and Libraries:**
 - Flask/Django: **Web application framework.**
 - PyPDF2/Fitz: For PDF handling.
 - Gemini or Other AI models for **natural language processing and optimized job description generation.**
3. **Database:** SQLite for storing frequently used **job descriptions and templates.**
4. **Deployment:** Docker containerisation and cloud service deployment (e.g., AWS or Azure).
5. **Version Control:** Git for source code management.

Expected Outcomes:

1. A **fully automated job ad generator** that simplifies and accelerates job posting creation.
2. Professionally structured **job descriptions tailored** to the user's specific needs.
3. Improved efficiency in **recruitment and HR workflows** by reducing manual drafting time.
4. Enhanced user experience through an **interactive and intuitive interface.**

Risks and Mitigations:

1. **Content Accuracy:** Optimise AI-generated responses to ensure **clarity, professionalism, and inclusivity.**
2. **Customisation Flexibility:** Provide **user-editable fields** to refine AI-generated job descriptions.
3. **Data Privacy:** Secure user input and stored job descriptions using **encryption and access control measures.**
4. **AI Model Optimisation:** Fine-tune AI prompts to **avoid generic or overly formal outputs.**