**AI Job Portal - Deployment Guide**

This document provides a step-by-step guide to deploying the AI Job Portal application.

**Prerequisites**

Ensure you have the following installed on your server:

* **Python 3.8+**
* **pip**
* **Virtual Environment**
* **Gunicorn**
* **Nginx** (for production deployment)
* **SQLite3** (default database)
* **Redis** (for Celery task queue, if required)

**1. Clone the Repository**

SSH into your server and clone the project repository:

*cd /var/www/*

*git clone https://github.com/your-repository/ai-job-portal.git*

*cd ai-job-portal*

**2. Set Up a Virtual Environment**

*python3 -m venv venv*

*source venv/bin/activate* # On Windows use 'venv\Scripts\activate'

**3. Install Dependencies**

*pip install -r requirements.txt*

**4. Configure Environment Variables**

Create a .env file in the project root and add required configurations:

*DEBUG=False*

*SECRET\_KEY=your-secret-key*

*ALLOWED\_HOSTS=yourdomain.com,127.0.0.1*

*DATABASE\_URL=sqlite:///db.sqlite3*

**5. Apply Migrations & Collect Static Files**

*python manage.py migrate*

*python manage.py collectstatic --noinput*

**6. Start the Application with Gunicorn**

*gunicorn --bind 0.0.0.0:8000 ai\_job\_portal.wsgi:application --daemon*

**7. Configure Nginx (Optional for Production)**

Create a configuration file in /etc/nginx/sites-available/ai-job-portal:

*server {*

*listen 80;*

*server\_name yourdomain.com;*

*location / {*

*proxy\_pass http://127.0.0.1:8000;*

*proxy\_set\_header Host $host;*

*proxy\_set\_header X-Real-IP $remote\_addr;*

*proxy\_set\_header X-Forwarded-For $proxy\_add\_x\_forwarded\_for;*

*}*

*}*

Enable the site and restart Nginx:

*ln -s /etc/nginx/sites-available/ai-job-portal /etc/nginx/sites-enabled/*

*systemctl restart nginx*

**8. Setup Celery & Redis (Optional for Background Tasks)**

*sudo apt install redis*

*celery -A ai\_job\_portal worker --loglevel=info --daemon*

**9. Access the Application**

* Open http://yourdomain.com in your browser.
* Login, apply for jobs, and enjoy!

**10. Maintain & Monitor**

* Use supervisor or systemd to manage Gunicorn and Celery in production.
* Run tail -f /var/log/nginx/error.log to check errors.
* Use htop or top to monitor server load.

**Deployment Complete**

Your AI Job Portal is now live!