## STREAMLIT INTERFACE - HireSense App

## **Overall Flow:**

- The entire system is built using Streamlit
- Uses spaCy to preprocess text: lowercasing, stopword removal, and lemmatization
- Uses SentenceTransformer to convert text into semantic embeddings
- Uses cosine similarity to find the best matches between resume and job description embeddings
- Role switching and user flow is managed using st.session state.role

## Initial Screen - Role Selection:

This is the landing page of the HireSense application

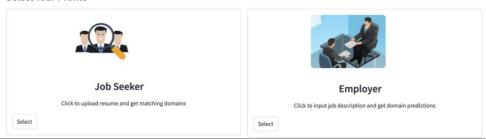
- The user is prompted to choose their role:
  - Job Seeker upload resume to get matched job domains
  - Employer paste job description to find relevant resumes

Two visually distinct cards are displayed with illustrations and instructions When the user clicks the "Select" button:

- Their choice is stored using st.session\_state.role
- This controls what screen appears next

# HireSense A smarter way to connect Job seekers and Employees

#### **Select Your Profile**

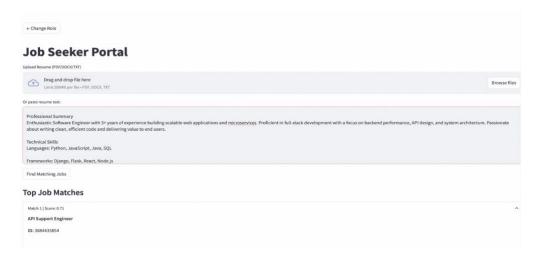


### Job Seeker Portal:

- This screen appears if the user selected the Job Seeker role.
- The user can:
  - Upload a resume in .pdf, .docx, or .txt format, or
  - Paste resume text manually in a text area.

When the user clicks 'Find Matching Jobs':

- 1. The resume text is cleaned and lemmatized using spaCy
- 2. It is embedded into vector form using SentenceTransformer
- 3. The app loads job data from jobs.csv and jobs\_embeddings.npy
- 4. Cosine similarity is calculated between the resume and job descriptions
- 5. The top 5 job matches are shown with:
  - Job title
  - Job ID
  - Similarity score



## **Employer Portal:**

This screen appears if the user selected the Employer role.

The employer can paste a job description into a text box.

On clicking 'Find Matching Resumes':

- 1. The job description is cleaned and embedded (similar to the Job Seeker flow).
- 2. The app loads candidate resumes (resumes.csv) and their embeddings (resumes\_embeddings.npy).
- 3. Computes cosine similarity between the job description and all resumes.
- 4. Displays the Top 5 matching resumes, showing:
  - Resume ID
  - · Resume snippet
  - Similarity Score

