# **DATA SLUSH ASSIGNMENT**

#### Overview

DataSlush has engaged with a company called **Social Directory** (This is a fictitious company). Social Directory aims to streamline and diversify the hiring process for the creative industry, starting with social media creators as their core ICP (Ideal Customer Profile).

#### **Customer Problem:**

Creators receive thousands of applications from candidates with diverse backgrounds when they post a job. We are seeking a solution which ranks talent based on their creative fit, recommending the best talent to them.

## **Key Problems Addressed:**

- Varying criteria among creators
- Specific needs for different production (video editing, design etc) and non-production (strategy, business development, operations etc) roles
- Less dependency on text-based matching
- Factoring in talent's personality and soft skills

# **Assignment Objective**

- In this assignment, your core objective is to develop a recommendation system to score and recommend a list of Top 10 Candidates for the hiring creators from the provided list above.
- We are looking for your thought process to build a viable solution to serve real customers and not just a take home assignment.

### **Features**

- Backend (Flask + Pandas):
- Exposes REST API endpoints to fetch jobs and candidate recommendations.
- Reads job/candidate data from CSV files.
- Provides clean JSON responses for the frontend.

# Frontend (React + Vite):

- Simple and responsive \*\*Job Dashboard UI\*\*.
- Buttons to select different job roles.
- Dynamic \*\*charts\*\* and \*\*tables\*\* displaying the top 10 candidates per job.
- Dark theme UI for better visualization.

## Tech Stack

### Backend:

- Python
- Flask
- Flask-CORS

- Pandas

### Frontend:

- React (Vite)
- JavaScript (ES6+)
- Chart.js / Recharts (for visualizations)

# **Project Structure**

```
DATA SLUSH ASSIGNMENT/
| — backend_ds/
├— app.py # Flask backend API
— recommender.py # Candidate recommender logic
├— utils.py # Utility functions
├— requirements.txt # Python dependencies
| — data_ds/
| ├— jobs.json
├— all jobs top10.csv # Top 10 candidates per job
| — job-dashboard/ # React frontend
| ├— public/
│  ├— package.json
```

# **Backend Setup (Flask)**

cd ../backend\_ds pip install -r requirements.txt py app.py

# Frontend Setup (React + Vite)

cd ../job-dashboard npm install npm run dev