

Hackathon: AI for Career Safety and Trends

1. Hackathon Phases:

Phase 1: Understanding the Problem (Research & Ideation)

- Teams will explore the challenges related to **career safety and job trends** (e.g., automation risk, skill gaps, job obsolescence, market demand trends, AI's role in hiring).
- Participants will research existing solutions and identify gaps.
- Each team must formulate a **problem statement** and submit a **brief idea proposal**.

Phase 2: Data Collection & Preprocessing

- Teams will collect or scrape **publicly available** career-related data (e.g., job postings, LinkedIn trends, salary insights, hiring patterns, layoffs, skills in demand).
- Teams should ensure **compliance with ethical data collection practices**.
- Basic **data cleaning and preprocessing** should be performed to make the dataset usable for AI models.
- The dataset must contain a **minimum of 1,000 data points** to ensure meaningful analysis.

Phase 3: Applying Baseline Models

- Teams will apply **basic AI/ML models** to analyze their data (e.g., job trend forecasting, resume screening analysis, automation risk assessment, career path recommendations).
- The focus should be on **demonstrating proof-of-concept rather than high model accuracy**.
- Pre-trained models can be used if necessary.

Phase 4: Presentation & Evaluation

- Teams will present their findings and ideas in a **5-10 minute pitch**.
- The presentation should cover:
 - **Problem statement & significance**
 - **Data collection & preprocessing process**
 - **AI model & findings**
 - **How the solution contributes to career safety**
 - **Future improvements & scalability**
- Judges will evaluate based on clarity, innovation, feasibility, and impact.

2. Rules & Guidelines:

- **Originality:** The idea must be original and not a direct copy of an existing solution.
- **Data Ethics:** No private or sensitive data should be collected without consent.

- **Use of Pre-trained Models:** Allowed, but teams should clearly explain their role in the project.
- **Collaboration:** Teams must work independently; external mentorship is allowed but should be disclosed.
- **Presentation Format:** Each team must prepare a **slide deck (maximum 10 slides)** and a **live demonstration (if applicable)**.

3. Judging Criteria:

Criterion	Description	Weight
Innovation	Uniqueness and creativity of the idea	30%
Impact	Potential effectiveness in improving career safety	25%
Feasibility	Practicality and scalability of the solution	20%
Execution	Quality of data collection and AI application	15%
Presentation	Clarity and effectiveness of communication	10%