

# SMART INDIA HACKATHON 2024



## TITLE PAGE

- **Problem Statement ID:** 1628
- **Problem Statement Title:** Smart Competency Diagnostic and Candidate Profile Score Calculator
- **Theme:** Smart Education
- **PS Category:** Software
- **Team ID:**
- **Team Name:** Singularity Syndicate



# IDEA TITLE

## IDEA/SOLUTIONS:

**Our idea (Comprehensive Employment Platform/Portal)** addresses multiple pain points in the current job market.

- ❖ **AI-Powered Job Candidate Recruiter System**
- ❖ **Skill Gap Analysis and Recommendations**
- ❖ **Adaptive Learning Pathways**
- ❖ **Real-Time Job Market Insights**
- ❖ **Use of Machine Learning Algorithms** to make real-time analysis and for jobs matching.
- ❖ **Interactive Dashboard**
- ❖ **Skill assessments**

We named this platform '**Career Conquest**'.

## PROBLEM RESOLUTIONS:

- ❖ **AI-powered job matching system** analyzes profiles to match candidates with relevant jobs, improving accuracy and reducing job search time.

## UNIQUE VALUE PROPOSITION (UVP):

- ❖ **Focus on Individualization:** Unlike generalized platforms, Career Conquest offers personalized career advice.
- ❖ **Strategic Approach:** Beyond skill-building, it provides actionable steps for career development.
- ❖ **Comprehensive Offering:** Combines personalized guidance, skill development, and strategic planning.
- ❖ **Alignment with Industry Trends:** Ensures skills are relevant and future-proof.

## Frontend

- React.js for dynamic interfaces.
- HTML5, CSS3, JavaScript for core design and responsiveness.

## Backend

- Django/Flask.
- NodeJS

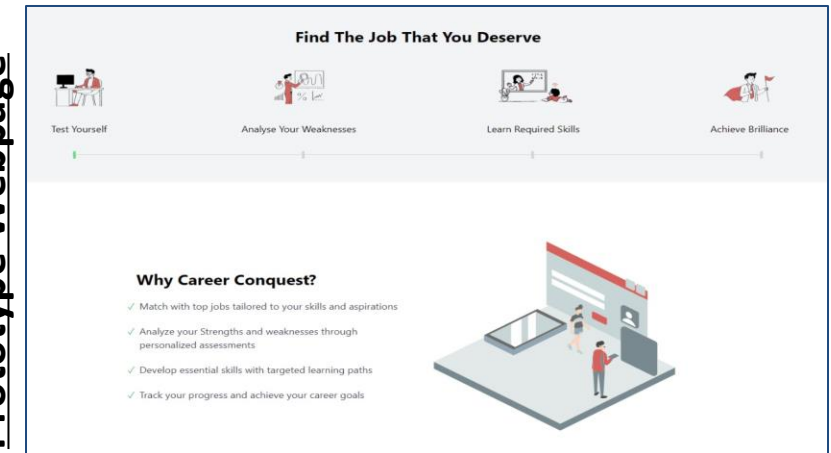
## Database

- MySQL for structured data.
- MongoDB for unstructured data.

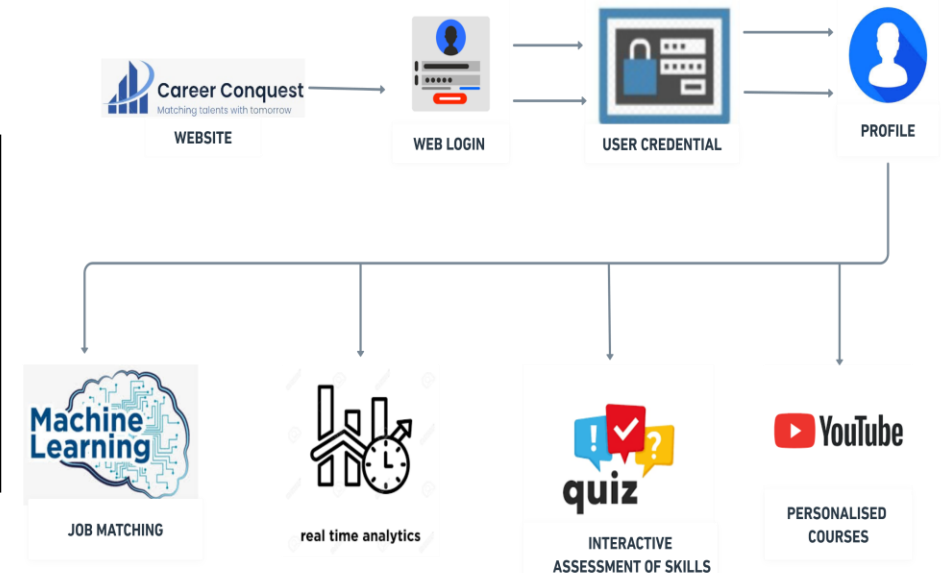
## AI/ML

- NumPy, pandas ,matplotlib , seaborn for data visualization and manipulation.
- TensorFlow & Keras , scikit learn, implicit , OpenAI Gym for building job/course matching system and algorithms like unsupervised, supervised and reinforcement learning.

### Prototype Webpage



### Process Flowchart



## FEASIBILITY

- **Affiliate Marketing:** We can collaborate with educational platforms or certification bodies and earn commissions on referrals for courses, training, or upskilling programs.
- **Sponsored Ads:** We can offer targeted advertising to companies or educational institutions looking to promote their services to job seekers.
- **Subscription Plans:** Implement monthly or yearly subscription tiers for users to access exclusive features such as interview coaching, certification courses, or career counseling.

## CHALLENGES AND SOLUTIONS

- **Data Security and Privacy:** By implementing strong encryption, SSL, and comply with GDPR/CCPA using industry-standard protocols.
- **Scalability:** Using cloud infrastructure (AWS, Azure) with auto-scaling and microservices architecture for seamless growth.
- **AI Accuracy:** Continuously training AI models on diverse data, and implement bias checks to ensure fairness.
- **Competition:** By focusing on niche features, personalized career guidance, and superior user experience to differentiate.

## IMPACT

### ❖ Enhanced Job Matching

- **Personalization:** Provides tailored job matching based on individual skills, experience, and preferences.
- **Efficiency:** Reduces the time and effort that job seekers spend finding suitable job opportunities.

### ❖ Career Advancement

- **Improved Outcomes:** Increases job seekers' chances of landing roles that match their skills and career goals.
- **Professional Growth:** Facilitates continuous learning and professional development.

## BENEFITS

### • Adaptive Learning Pathways

- **Customized Learning:** Provides users with personalized learning paths based on progress and feedback.
  - **Continuous Growth:** Supports lifelong learning and professional development, keeping users updated with market demands.
- ### • Real-Time Market Insights
- **Informed Decisions:** Offers data-driven insights into job trends, salary benchmarks, and in-demand skills.
  - **Future-Proofing:** Helps users and employers prepare for future skill requirements and market shifts.

## ❖ JOB DATASET

- <https://www.kaggle.com/datasets/promptcloud/iobs-on-naukricom>

## ❖ RESEARCH PAPER

- <https://www.sciencedirect.com/science/article/abs/pii/S095070511730374X?via%3Dihub>
- <https://research.google/resources/datasets/>

## ❖ API FOR ASSESSMENT

- [https://aistudio.google.com/app/prompts/new\\_chat](https://aistudio.google.com/app/prompts/new_chat)

## Prototype Webpage



### Empowering Careers with Personalized Job and Skill Matching

Tailored Job Matches and Skill Development to Help You Conquer Your Career.

Start As Candidate

Start As Employer



*We are the match-makers, so you don't have to worry about getting discovered.*

Team Career Conquest