



**SMART INDIA  
HACKATHON  
2022**

# Basic Details of the Team and Problem Statement

**Organization Name:** All India Council for Technical Education (AICTE)

**PS Code:** DR710

**Problem Statement Title:** Career dendrogram

**Team Name:** ProSol

**Team Leader Name:** Harsh Loomba

**Institute Code (AISHE):** U-0064

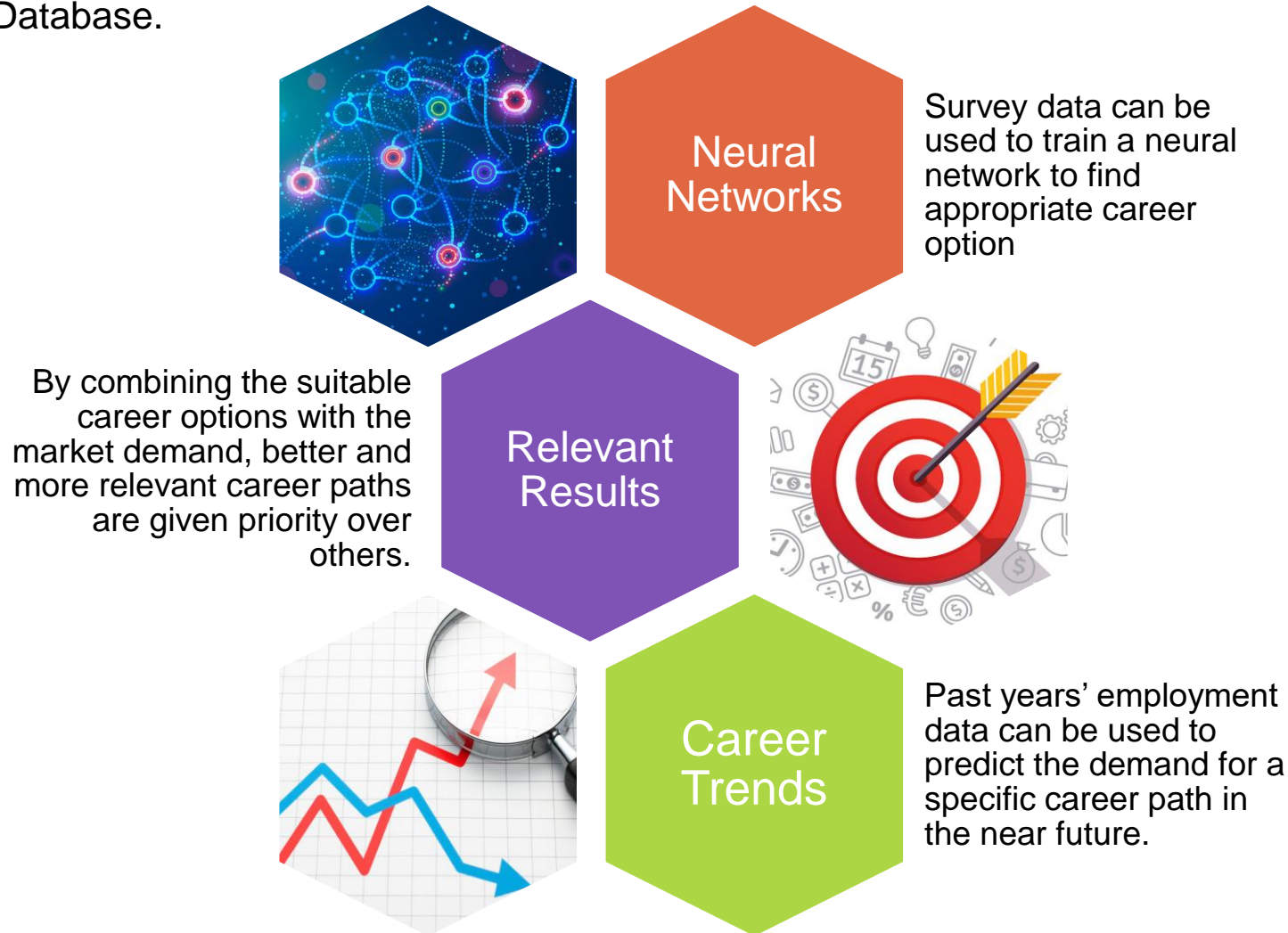
**Institute Name:** Indian Institute of Technology Patna

---

**Theme Name:** Smart Education

# Idea Details

The development of “ProfessionPro” web portal that takes basic information about the skills and education level of individuals, and suggests career paths based on their interests, integrating it with the trends from the Nationalized Job Database.



## Technology Stack:

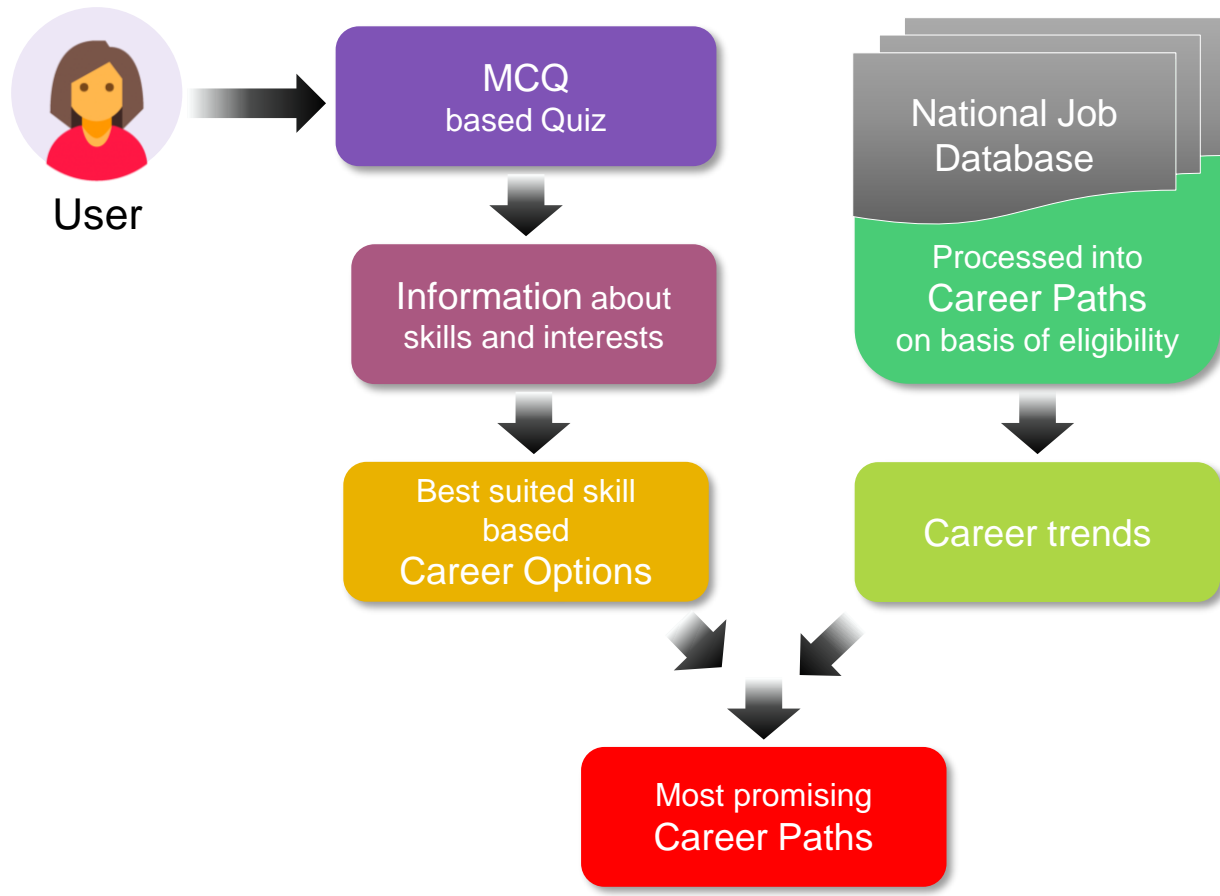
- **HTML5, CSS3**  
Creating an interactive web UI.
- **Python**  
To develop the ML framework  
Integrate it with the Dendrogram
- **Django**  
Python based, open-source framework for backend web applications.
- **MySQL**  
Open-source relational DBMS  
Used for managing the Nationalized Job Database.

## Showstopper:

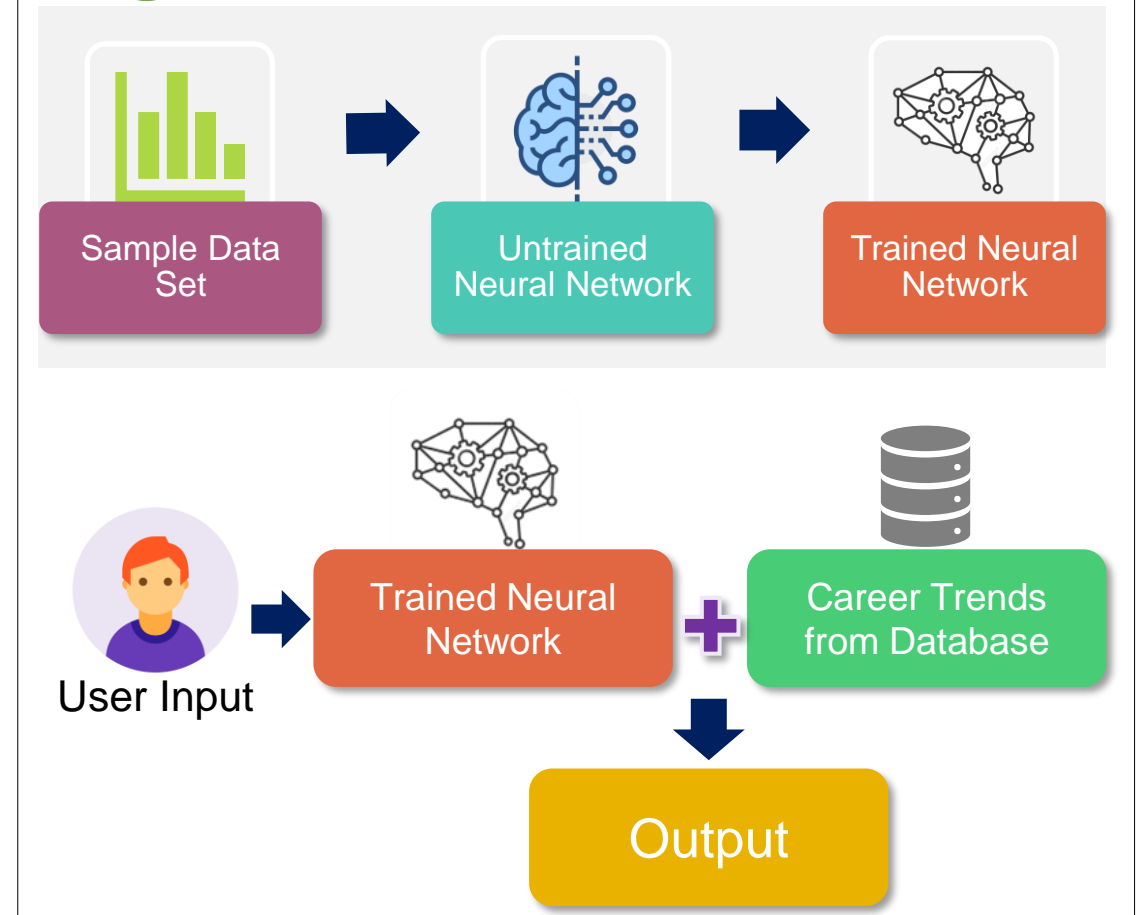
Combining the skill based career paths with available job opportunities also ensures that the suggested options are good to go for the current and near future job market.

# Approach Details

## Use Case



## Algorithm



## Dependency

Detailed and well maintained National Job Database required.

# Team Member Details

**Team Leader Name:** Harsh Loomba

Branch: B.Tech. Stream: CSE Year: I

**Team Member 1 Name:** Arkadeep Acharya

Branch: B.Tech. Stream: CBE Year: I

**Team Member 2 Name:** Ashutosh Kumar Singh

Branch: B.Tech. Stream: CSE Year: I

**Team Member 3 Name:** Asmit Ganguly

Branch: B.S. Stream: MC Year: I

**Team Member 4 Name:** Harshit Dhankhar

Branch: B.S. Stream: MC Year: I

**Team Member 5 Name:** Seema Meena

Branch: B.Tech. Stream: EEE Year: I

**Team Mentor 1 Name:** Mayank Agarwal

Category: Academic Expertise: ML Domain Experience (in years): 3