

# Concept Note

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## **Project Title: Career AI Agent – Skill-Based Career Recommendation System**

### **Background & Problem Statement:**

Many students and early-career professionals struggle to identify suitable career paths based on their skills, interests, and current competencies. Limited access to personalized career guidance often results in poor career decisions, skill mismatch, and underemployment.

### **Proposed Solution:**

The Career AI Agent is an AI-powered system designed to provide personalized career recommendations based on user-entered skills. The system analyzes skills using machine learning and natural language processing techniques and maps them to relevant career roles. An interactive Streamlit dashboard allows users to input their skills and instantly receive career suggestions.

### **SDG Alignment:**

This project aligns with United Nations Sustainable Development Goal 8 (Decent Work and Economic Growth) by supporting informed career decision-making, improving employability, and promoting skill-based workforce development.

### **Target Users:**

- Students and fresh graduates
- Job seekers and career switchers
- Educational institutions and training platforms

### **Tools & Technologies Used:**

- Python
- Streamlit (Dashboard UI)
- Scikit-learn (ML-based recommendations)
- NLP techniques for skill processing
- Render for deployment

### **Expected Impact:**

The Career AI Agent helps users identify relevant career options, understand skill gaps, and make informed career decisions. The project demonstrates applied AI skills and serves as a scalable solution for career guidance systems.