Group Two (2)

**Title : WorkWise “Where Talent Meets Opportunity”**

Name of Group Members

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**Idea Proposal — WorkWise: “Where Talent Meets Opportunity”**

**1. Project Idea:**Liberia is currently face with a critical challenge: youth unemployment is estimated at over 60%, with many young people underemployed or stuck in low-paying, informal jobs. This is not due to a lack of talent, but a mismatch between skills and available opportunities.

Current job boards are often generic, poorly maintained, and fail to provide tailored opportunities or learning pathways. As a result: (1). Job seekers spend months searching for relevant work. (2). Employers struggle to identify qualified candidates quickly. (3). Skills gaps remain unaddressed, perpetuating cycles of poverty.

This where workwise comes in, an AI-assisted job matching and skills development platform designed to address youth unemployment and underemployment in Liberia. By intelligently connecting young people’s talents to relevant job opportunities and training programs, we are anticipating that WorkWise ensures they not only find work but also gain the skills demanded by today’s evolving job market.

Our mission is simple yet ambitious: is to reduce youth unemployment, foster economic inclusion, and align Liberia’s workforce with market demands.

**2. Relevance to Sustainable Development Goals (SDGs):**  
This project supports **SDG 8 — Decent Work and Economic Growth**, specifically Target 8.6: Substantially reduce the proportion of youth not in employment, education, or training. By serving as the bridge “Where Talent Meets Opportunity,” WorkWise fosters inclusive economic growth by ensuring youth gain meaningful access to jobs and skill development tailored to Liberia’s labor market needs.

**3. Literature Examples:  
Example 1:** “AI for Job Matching in Developing Economies” (World Bank, 2021) demonstrated a 27% improvement in youth job placements in Kenya through skills-based AI matching, underscoring the effectiveness of platforms like WorkWise.

**Example 2:** “Skill-based Employment Matching Using Machine Learning” (IEEE, 2022) highlighted how recommendation algorithms can efficiently connect job seekers with employers in emerging markets, providing a blueprint for WorkWise’s hybrid recommendation system.

**4. Describe Your Data:  
Sources:** Job listings from employers, government portals, NGOs offering training programs, and youth-submitted CVs.

**Format:** Structured data in CSV files (job posts, profiles), and unstructured data such as PDFs or text for CVs and job descriptions.

**Size:** Estimated initial dataset of 5,000+ job opportunities and 20,000+ youth profiles.

**Preprocessing:** Utilizes NLP techniques for CV parsing, keyword extraction from job descriptions, and normalization of skill terminologies to ensure accurate matches.

**5. Approach (Machine Learning or Deep Learning):  
Machine Learning Approach:** WorkWise employs a hybrid recommendation engine combining content-based filtering (matching individual skills to job requirements) with collaborative filtering (leveraging patterns from successful matches). This approach balances precision and scalability.

**Justification:** Given the structured and textual nature of the data, machine learning enhanced with NLP offers efficient, interpretable, and data-sparing solutions, ideal for WorkWise’s initial phase before considering deeper learning architectures.