

# Recommendation Engine: Approach & Implementation

## Advanced AI-Powered Assessment Matching System

### 1. Introduction

*The Assessment Recommendation Engine is a sophisticated system designed to match job requirements*

### 2. Core Approach

#### 2.1 Retrieval-Augmented Generation (RAG)

- Excel upload and validation
- JSON knowledge base for knowledge storage
- FAISS index creation and optimization
- Sentence Transformers for semantic embeddings

*- Python backend with scikit-learn and FAISS*

*- Streamlit frontend with responsive UI*

### 3. Technical Implementation

#### 3.1 Architecture Overview

### 5. Results & Impact

#### 5.1 Accuracy Improvements