I developed an AI-powered web application that recommends SHL assessments based on job descriptions or natural language queries. The system leverages semantic search and filtering to provide accurate, relevant suggestions in a user-friendly interface.

**Key Components**

1. **Data Collection & Processing**
   * Scraped SHL's product catalog to gather assessment details (name, URL, duration, test type, etc.).
   * Structured the data for efficient retrieval and filtering.
2. **AI-Powered Recommendations**
   * Used Google's Gemini API to analyze job descriptions and generate assessment recommendations.
   * Implemented JSON extraction to parse the AI response into structured data.
3. **User Interface**
   * Built with Streamlit for a clean, interactive experience.
   * Features:
     + Input options (text, URL, or sample jobs).
     + Filterable results (by test type, duration, remote/adaptive support).
     + Responsive design with error handling.
4. **API Integration**
   * Designed to return recommendations in JSON format for potential API use.

**Technologies Used**

* **Backend**: Python, Gemini API, BeautifulSoup (for URL extraction).
* **Frontend**: Streamlit (for UI), Pandas (for data display).
* **Evaluation**: Implemented filtering and validation to ensure relevance.

**Key Features**

* **Dynamic Filtering**: Users can refine results by test type, duration, and support features.
* **Error Handling**: Robust validation for inputs and API responses.
* **Performance**: Asynchronous processing with progress indicators.

**Outcome**

The application simplifies the assessment selection process, providing hiring managers with tailored recommendations quickly and accurately.

**App** : [Streamlit](https://shl-recommendation-system-genai.streamlit.app/)

**GitHub**: [Abhilashdhote/SHL\_Assessment\_Recommendation\_System-](https://github.com/Abhilashdhote/SHL_Assessment_Recommendation_System-)