EduRag – AI-Powered Multilingual Educational Platform

EduRag is an AI-powered educational platform that leverages Retrieval-Augmented Generation (RAG) to deliver curriculum-aligned content, generate intelligent questions, and offer personalized tutoring. With built-in multilingual support, EduRag breaks language barriers, making learning inclusive, adaptive, and accessible for students across diverse regions.

Features: - AI-Powered Learning: Delivers accurate, curriculum-based educational content. - Multilingual Support: Provides explanations and resources in multiple languages. - Intelligent Question Generation: Automatically generates questions from topics. - Personalized Tutoring: Adapts responses to different learning needs and levels. - RAG-Driven: Uses Retrieval-Augmented Generation for more accurate and context-aware answers.

Project Structure: EduRag/ - streamlit\_app\_multilingual.py (Main Streamlit application) - requirements.txt (Python dependencies) - .env (Environment variables, e.g., API keys) - data/ (Optional: Data storage for documents) - README.docx (Project documentation)

Installation & Setup: 1. Clone the Repository: git clone https://github.com/yourusername/EduRag.git cd EduRag

1. Install Dependencies: pip install -r requirements.txt
2. Add Your API Key: Create a .env file in the project root and add your API key: OPENAI\_API\_KEY=your\_api\_key\_here

Run the Application: streamlit run streamlit\_app\_multilingual.py

Future Enhancements: - Integration with textbook databases for broader content retrieval - Progress tracking and analytics dashboard - Voice-based multilingual support

Contributing: Contributions are welcome! Fork the repo, make changes, and submit a pull request.

License: This project is licensed under the MIT License.