EduTutor-AI: Technology Stack & Architecture

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Project Name: EduTutor-AI

# Technology Stack

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| S.No | Component | Description | Technology |
| 1 | User Interface | Web-based input and feedback view | Streamlit |
| 2 | Application Logic | Role logic, quiz flow, scoring | Python + FastAPI |
| 3 | AI Service Layer | Prompt handling, quiz generation | IBM Watsonx (Granite model) |
| 4 | Vector Storage | Store and query student quiz data | Pinecone |
| 5 | Session Management | Temporary state while user is active | Streamlit Session State |
| 6 | Security | Environment variable protection | .env + python-dotenv |
| 7 | Deployment | Runs locally or on cloud | IBM Cloud / Localhost |