

## GenAI Document Assistant

The GenAI Document Assistant is an intelligent tool built to simplify how users interact with textual documents.

It offers automatic summarization, question answering, and logical challenges - all powered by cutting-edge Natural Language Processing.

### Features

- Document Upload: Upload .pdf or .txt files for processing.
- Auto Summary: Instantly generate a concise summary of your document.
- Ask Anything: Ask free-form questions and get context-aware answers.
- Challenge Me: Receive logic-based questions derived directly from your document.
- Justification: Each answer comes with references from the uploaded content.

### Tech Stack

- Backend: Python (Flask)
- Frontend: Streamlit (optional UI)
- NLP: Transformers, NLTK
- PDF Parsing: PyPDF2

### Setup Instructions

```
$ git clone https://github.com/yourusername/GenAI_Assistant.git
```

```
$ cd GenAI_Assistant
```

```
$ python -m venv venv
```

```
$ source venv/bin/activate # On Windows: venv\Scripts\activate
```

```
$ pip install -r requirements.txt
```

```
$ python app.py
```

## Example Use Cases

- Quickly summarize research papers
- Extract facts or context from contracts or legal docs
- Quiz yourself on study material
- Build QA chatbots based on documents

## License

This project is licensed under the MIT License.

## Contributing

Contributions are welcome! Please open an issue or pull request.