





Gemini

### Al-Tutor



A GENERATIVE AI APPLICATION

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#### What AI - Tutor does???

A LLM (Google's Gemini) powered application which takes study materials (PDFs) from user and uses the content in the PDF to create MCQs and conduct the same as a test and also provides the user the total marks obtained from the test and also assisting with right explanations to the answers.

#### Motivation for the project:

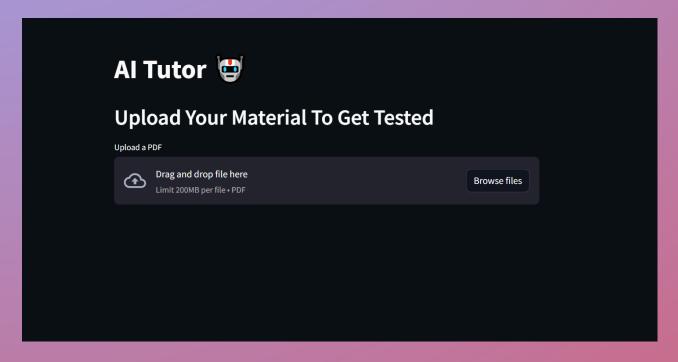
Back in 2019 I was just entering my 12th standard and CBSE had announced that there will be a change in paper pattern, where each paper will consist of 20 MCQs. So at that time there no MCQ materials to prepare from :( the struggle was real solving tricky MCQs.

Even today MCQs are part of CBSE exam pattern, so I thought to use the power of LLM to create such an application to help students prepare for MCQs

#### Home Page



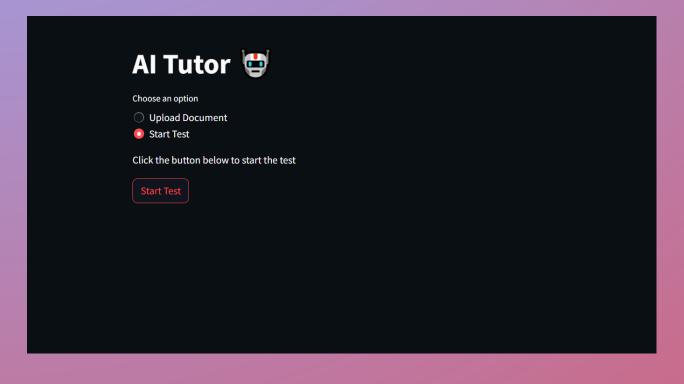
#### Document Upload Page



#### Local Data Storage as JSON file

```
{
    question": "What is federalism?",
    "information": "Federalism is a system of government in which the power is divided between a central authority and various constituent units of the couroptions":
    "A system of government where power is concentrated in a single authority.",
    "A system of government where power is shared between different levels of government.",
    "A system of government where power is shared between the government and the people.",
    "A system of government where power is shared between the government."
    "A system of government where power is based on the consent of the government."
    "A system of government where power is divided between different levels of government."
    ""In a unitary system, power is concentrated in a single authority, while in a federal system, power is divided between different levels of government."
    "In a unitary system, power is divided between different levels of government, while in a federal system, power is concentrated in a single authority."
    "In a unitary system, power is divided between different levels of government, while in a federal system, power is concentrated in a single authority."
    "In a unitary system, the government is responsible for all aspects of government, while in a federal system, the government is only responsible for all aspects of government, while in a federal system, the people have no say in how the government is run, while in a federal system, the people have a say in how the government is namewer": "In a unitary system, power is concentrated in a single authority, while in a federal system, power is divided between different levels of government is "The two main types of federations?",
    "information": "What are the two main types of federations?",
    "information": "The two main types of federations are 'coming together' federations and 'holding together' federations and 'contralized federations,"
    "Centralized federations and holding together federations",
    "Centralized federations and
```

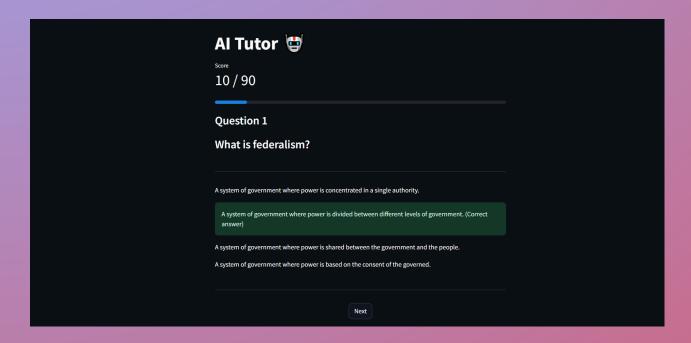
#### Test Start Page



#### Test Page

Al Tutor 😇
Score 0 / 90
Question 1 What is federalism?
A system of government where power is concentrated in a single authority.
A system of government where power is divided between different levels of government.
A system of government where power is shared between the government and the people.
A system of government where power is based on the consent of the governed.
Submit

#### Correct Answer



### Wrong Answer

10 / 90	
Question 2	
What is the difference between a unitary and a federal system of government?	
In a unitary system, power is shared between the government and the people, while in a federal system, power is concentrated in a single authority.	
In a unitary system, power is divided between different levels of government, while in a federal system, power is concentrated in a single authority. (Incorrect answer)	
In a unitary system, the government is responsible for all aspects of governance, while in a federal system, the government is only responsible for certain aspects of governance.	,
In a unitary system, the people have no say in how the government is run, while in a federal system, the people have a say in how the government is run.	
Next	

#### Final Score & Restart

Quiz completed! Your score is: 30 / 90		
	Restart	

#### **Tech Stack Used:**

- Python
- LLM Google's Gemini Pro
- Langchain
- Streamlit
- PyPDF2
- Github
- CSS