

# AI Chatbot Assignment

## PDF for Knowledge base

 input.pdf 804.7KB

**Note: If your code for the task is copied from the internet, your submission will be rejected. Make a genuine effort to solve the problem on your own.**

### Objective:

Create a chatbot that can answer questions based on the content of a provided PDF document. If the chatbot cannot find the answer in the PDF, it should respond:

*"Sorry, I didn't understand your question. Do you want to connect with a live agent?"*

### Assignment Requirements

#### 1. PDF Understanding:

- The chatbot should load the provided PDF and use its content as the knowledge base.
- It must accurately retrieve and display answers from the PDF content.

#### 2. Fallback Response:

- If the chatbot cannot find the answer in the PDF, it must provide a fallback response:

*"Sorry, I didn't understand your question. Do you want to connect with a live agent?"*

#### 3. User Interaction:

- Develop an interface (text-based or graphical) where users can ask questions and receive responses.
- Ensure the interaction is clear and intuitive.

#### 4. Problem-Solving:

- You are responsible for deciding the tools, libraries, and frameworks to use.
- Research and implement methods for handling PDF data, querying information, and building chatbot functionality.

## Guidelines

- The focus is on applying AI concepts and practical problem-solving skills.
- Ensure your solution is modular and maintainable.
- Document your approach, including the decisions made and challenges encountered.

## Deliverables

### 1. Chatbot Application:

- A functional chatbot that meets the requirements.

### 2. Documentation:

- Describe your approach to solving the problem.
- Include details on tools and techniques used, and how the fallback logic is implemented.

## Evaluation Criteria

### 1. Functionality:

- Does the chatbot load the PDF and answer questions correctly?
- Does it handle fallback responses gracefully?

### 2. Problem-Solving:

- Are the chosen methods and tools appropriate for the task?

### 3. Documentation:

- Is the approach clearly explained and justified?

### 4. Innovation (bonus):

- Any additional features or optimizations added by the student.

## Sample question to test:

Q. When will admissions for BBA begin?

Answer

Admissions for the Bachelor in Business Administration (BBA) program at NMIMS are open year-round, but they are divided into two primary cycles: Admission Cycles: 1. Spring Batch (January Start): • Registration Period: Mid-September to Mid-March\*. 2. Fall Batch (July Start): • Registration Period: Mid-March to Mid-September\*. \*These dates are subject to change as per university guidelines. It's always a good idea to check the latest updates on the university's official website. Would you like assistance with the application process or information about upcoming deadlines?

Q. How many semesters will the program have?

Answer

The Bachelor in Business Administration (BBA) program spans 6 semesters over a duration of 3 years. Key Details: • The program's validity period is 5 years, allowing students some flexibility to complete their studies if needed. • Students can apply for a 1-year extension beyond the validity period by paying the applicable fees.

Q. Are there facilities for disabilities?

Answer

Yes, the NMIMS Global Access School for Continuing Education provides specific facilities for students with disabilities, especially during examinations. These accommodations are detailed below: Facilities for Physical Disabilities: 1. Scribe/Writer: • Students with permanent or temporary physical disabilities can apply for a scribe to assist during examinations. • The scribe should be arranged by the student and must have a lower academic qualification than the student if from the same field. • Students are given extra time for exams (20 minutes per hour). 2. Separate Examination Room: • Students using a scribe will be allotted a separate room during exams for better supervision and comfort. 3. Application Process: • A medical certificate from a registered medical practitioner must be submitted to request the use of a scribe. • Applications should be submitted at least 7 days before the examination to ensure approval. Facilities for Learning Disabilities (e.g., Dyslexia, Dyscalculia): 1. Scribe Assistance: • Students with learning disabilities can use a scribe during exams, if necessary. 2. Additional Time: • 25% extra time is provided to students with learning disabilities during examinations. 3. Exemptions: • Exemptions may be granted for tasks such as drawing figures or maps during exams. 4. Grace Marks: • Up to 20 grace marks can be awarded to students with learning disabilities to help them pass their exams. 5. Spelling and Number Errors: • Concessions are made for spelling mistakes and mathematical errors. Required Documentation: • For physical disabilities, certificates from government-authorized medical agencies are required. • For learning disabilities, a certificate from authorized agencies like Sion Hospital or Nair Hospital (in Mumbai) is necessary. These accommodations ensure a more inclusive and supportive learning environment for students with disabilities. If you'd like further assistance in applying for these accommodations or have other queries, feel free to ask!

Q. What other courses are available?

Answer

In addition to the Bachelor in Business Administration (BBA) program,

NMIMS Global Access School for Continuing Education offers a variety of other programs at different levels. These include: Undergraduate Programs: • Bachelor in Commerce (B.Com): A 3-year undergraduate program. • Other potential undergraduate programs related to business and commerce, though specific details are not provided in the document. Postgraduate Programs: • Post Graduate Diploma in Management (PGDM): Aimed at professionals seeking further specialization. • Master of Business Administration (MBA): Likely offered with specializations in areas like marketing, finance, HR, and operations (details not explicitly mentioned). Diploma and Certificate Programs: • Diplomas in various management and business fields. • Certificates for specific areas of interest, likely focusing on management, finance, marketing, and other business functions. Programs Designed for Working Professionals: • Various flexible learning programs tailored for professionals, helping them enhance skills without compromising their career responsibilities. • Programs designed for individuals at different levels, including executives, middle management professionals, and graduates. Flexible Delivery Mode: • Many of the programs are delivered through blended learning (a mix of online and face-to-face interactions). • Emphasis on industry relevance and flexibility to cater to professionals.

## Submission

- Submit your code, documentation, and a recorded demo or live demo session.
- Do not upload your code or documentation to GitHub or any other online platform.
- Submission must be strictly limited to the Google Form provided by HR.

Submit Here:- <https://forms.gle/BbkPFpjhk5KwMn718>