

## **Nallamuthu Gounder Mahalingam College**

(An Autonomous Institution, Affiliated to Bharathiar University)
90,PalghatRoad,Pollachi -642001,Coimbatore, Tamil Nadu, India.
95<sup>th</sup> Rank in NIRF -2023 - Among Colleges in India.



#### **ICT - AI Tools**

(Sample)





# NGM COLLEGE, POLLACHI DEPARTMENT OF COMPUTER SCIENCE WITH ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

ICT-Enabled Tools - AI as a Teaching & Learning Pedagogical tool For Effective Teaching and Learning

S.No	Name of the	Subject code	Tools Used	Class	Semester	No of
	Faculty	& Name				Student
						beneficiaries
1	Dr.S.Niraimathi	22UAI3	Google Class	II BSc	Ш	18
		Introduction	Room Code:	CS		
		to	tycqmec	with Al		
		Artificial	InteractiveAl	& ML		
		Intelligence	Learning			
			Tool:			
			chatpdf &			
			Gamma.ai			
			introduced			
2	Dr.S.Niraimathi	22UAI4	Google Class	II BSc	IV	18
_	DI.S.IVII allillatili	Introduction	Room Code:	CS		10
		to	Tycqmec	with Al		
		Machine	InteractiveAl	& ML		
		Learning	Learning			
			Tool:			
			chatpdf &			
			Gamma.ai			
			introduced			
3	Dr.S.Niraimathi	Naan	Google Class	I BSc	II	44
		Mudhalvan –	Room Code:	CS		
		Industry 4.0	po7yz7o	with Al		
			InteractiveAl	& ML		
			Learning			
			Tool:			
			chatpdf &			
			- charpai a			



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			Gamma.ai introduced			
4	Dr.S.Niraimathi	23UAI2 Operating System	Google Class Room Code: po7yz7o InteractiveAl Learning Tool: chatpdf & Gamma.ai introduced	I BSc CS with AI & ML	II	44

In order to remove the limitations of traditional teaching pedagogy AI Pedagogy comes in to play. AI is not a replacement but a complementary pedagogy to help improve the monotonous traditional pedagogy.

ChatPDF and gamma.ai are the AI tools and the new pedagogy using these tools has been implemented.

#### ChatPDF

CHATPDF is an interactive Tool which gives the summary of the pdf and generates questions pertaining to the content uploaded by the Staff. This link once shared with the students become the interactive content where the students can pose whatever queries pertaining to the content and chatpdf immediately provides solution to the query with references from the document and beyond

With ChatPDF, the PDFs are loaded and the generated summary and the questions are shared to the students through the appropriate links generated by chatPDF. The generated PDFlink is posted in the Google Classroom and once the Link is posted, the students can start interacting with the PDF. Students have the facility to post even MCQs and the ChatPDF responds with answer for it. With one click and simple text formatting, users can read these documents on any device, anywhere.

#### Gamma.ai

Gamma uses powerful AI to generate working presentations, documents, or webpages that users can customize and refine in under a minute. Users simply start writing in Gamma and it handles turning text into beautifully designed content.

In this context ChatPDF and gamma.ai has been used and the links for the same are shared through Google Classroom to the Students of First year and Second Year



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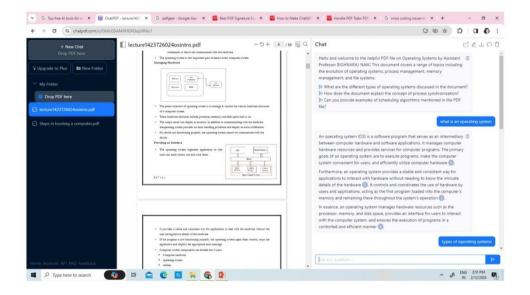
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Online AI Resources for posted by the staff for the core papers Introduction to AI, Machine Learning, Operating System and Naan Mudhalvan - Industry4.0 using CHATPDF, gamma.ai and the screenshot of response from Students

#### **Operating System**

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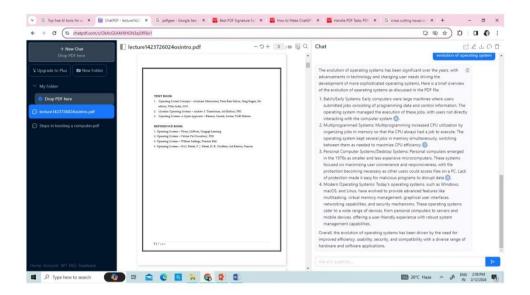




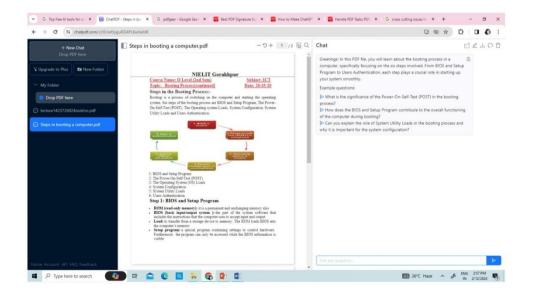
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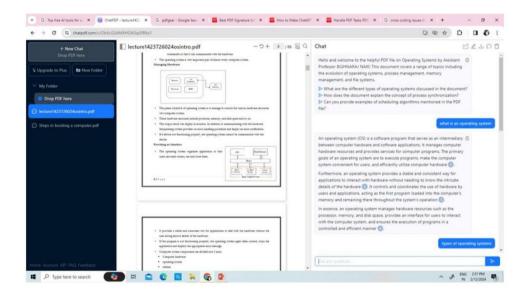


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#### **Artificial Intelligence**

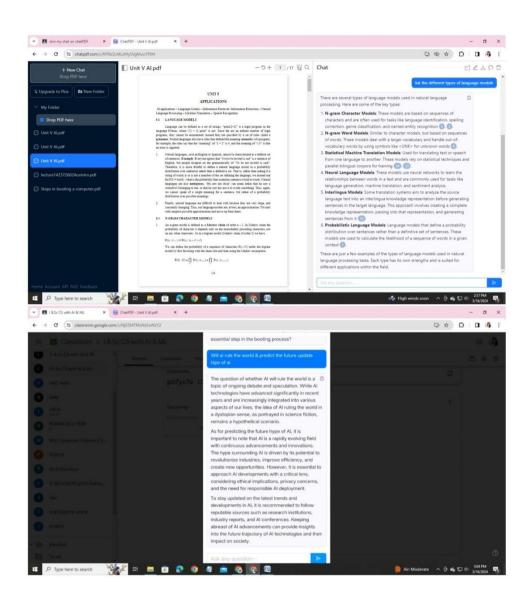




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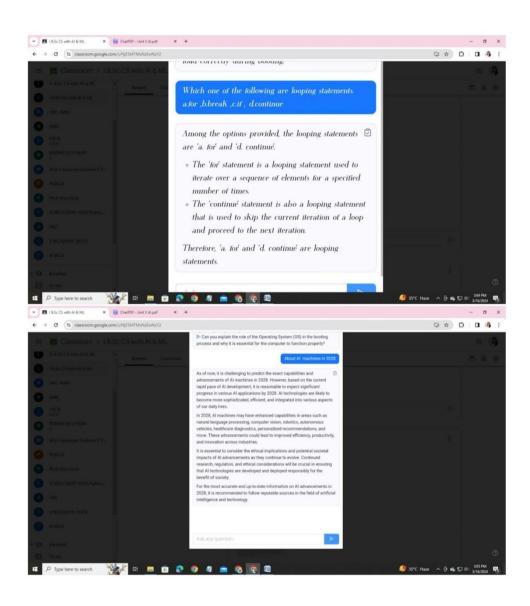




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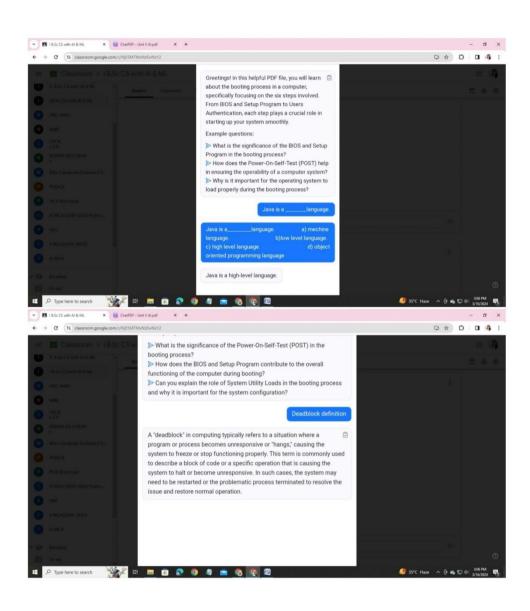




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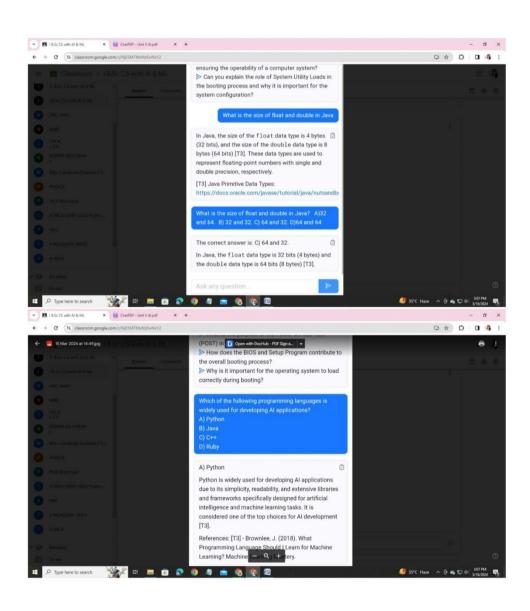




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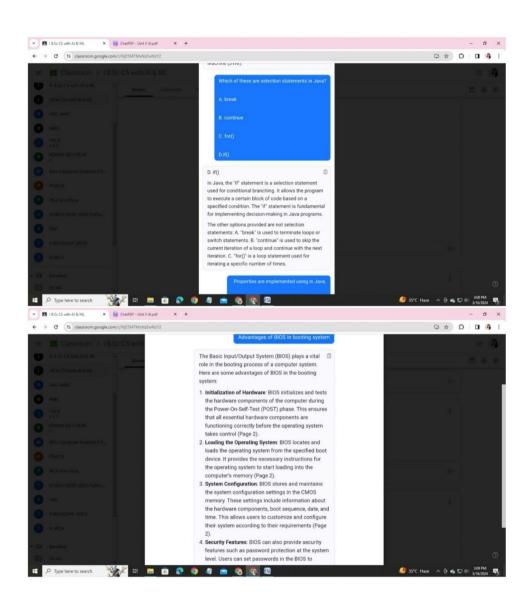




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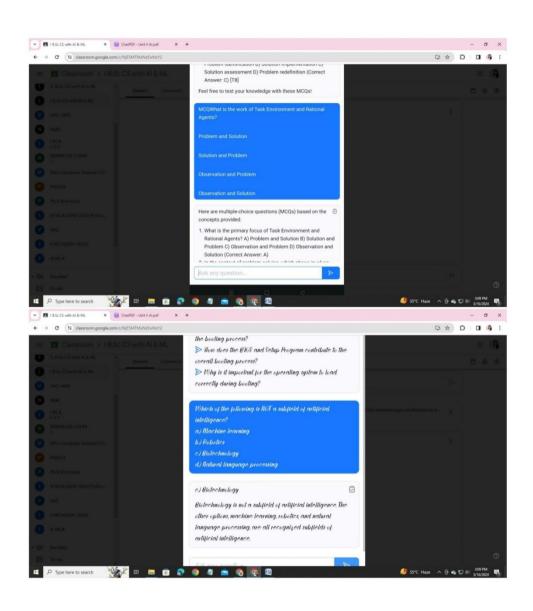




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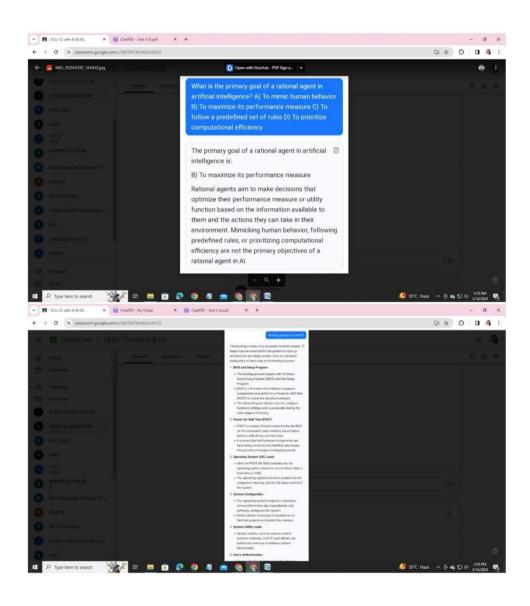




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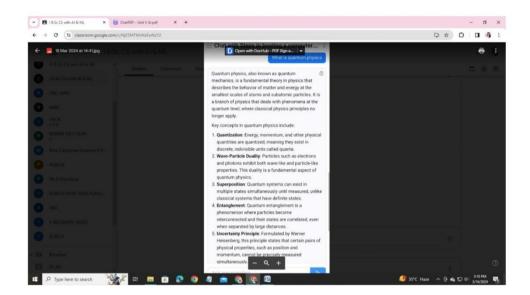




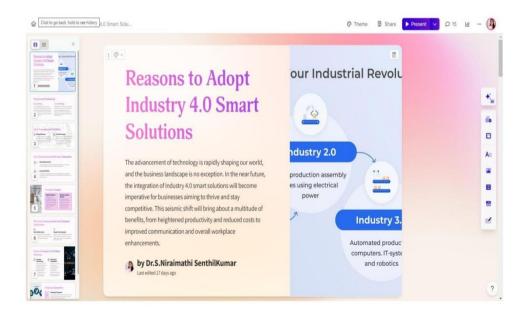
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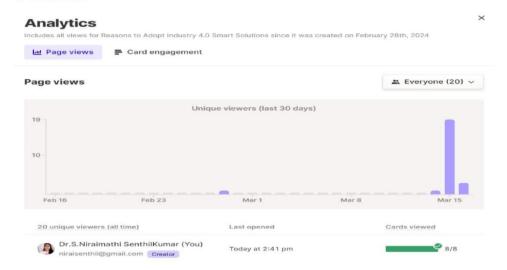


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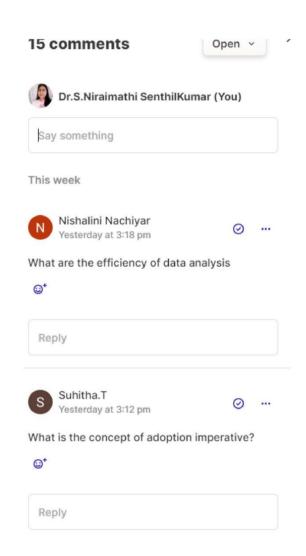




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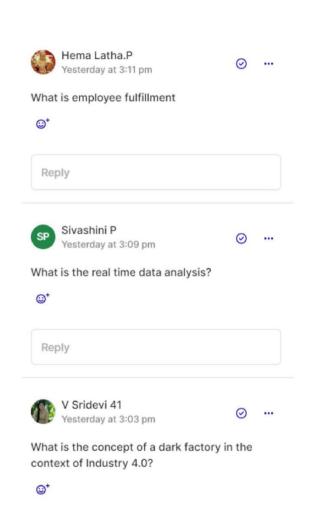




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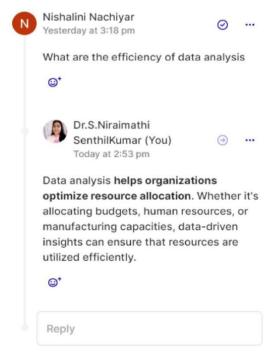


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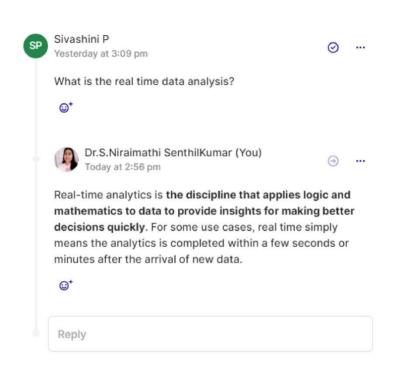




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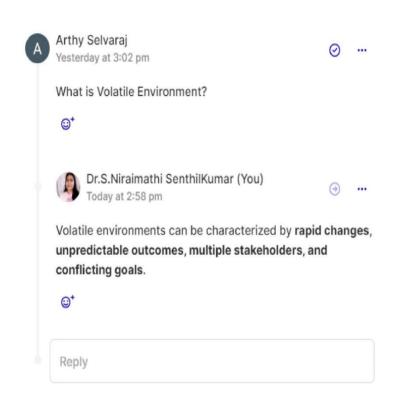




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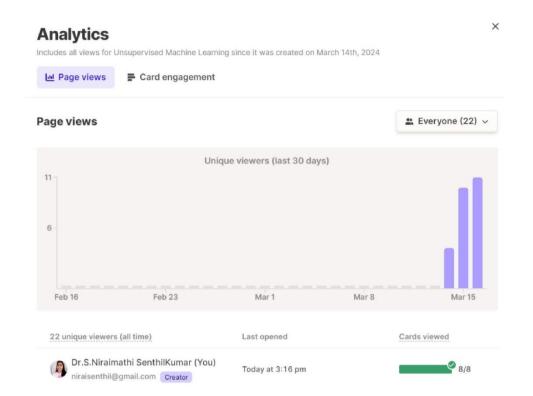




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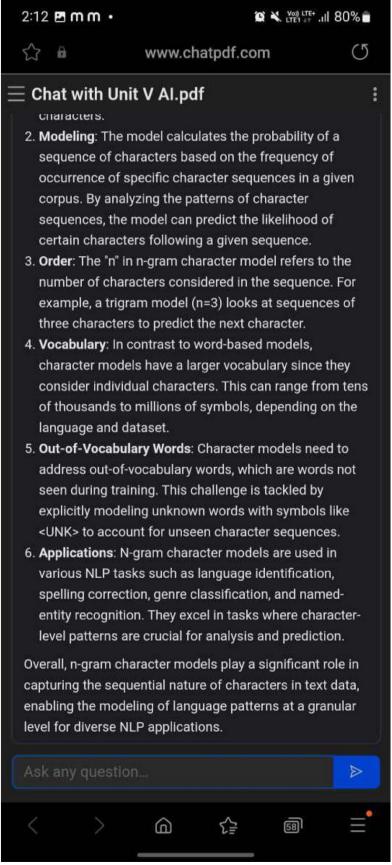
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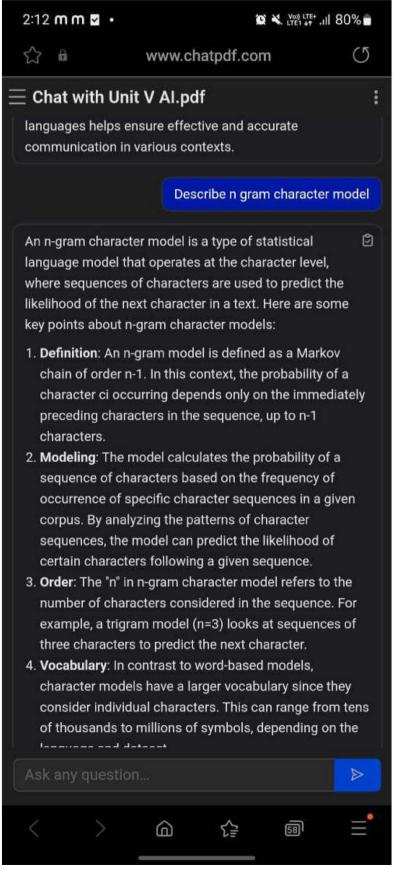




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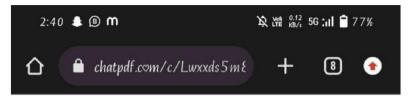




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- 3. **Training and Evaluation**: Machine learning tools facilitate the training of models on labeled datasets and provide mechanisms for evaluating the performance of the models using metrics like accuracy, precision, recall, and F1 score.
- 4. Hyperparameter Tuning: Many machine learning tools support hyperparameter optimization techniques to fine-tune the model's performance. This involves searching for the best set of hyperparameters that optimize the model's performance.
- 5. Deployment: Once a model is trained and evaluated, machine learning tools often provide options for deploying the model into production environments. This may involve exporting the model to a format that can be integrated into applications or services.
- 6. Visualization: Some machine learning tools offer visualization capabilities to help users understand the data, model architecture, training process, and results. Visualizations can aid in interpreting complex models and results.
- 7. Scalability and Performance: Advanced machine learning tools are designed to handle large datasets and complex models efficiently. They may leverage distributed computing frameworks to train models faster and at scale.
- 8. Interoperability: Machine learning tools may support integration with other tools and libraries commonly used in the machine learning ecosystem, such as TensorFlow, PyTorch, scikit-learn, and others.

  This interoperability allows users to leverage a wide range of resources and functionalities.

Popular machine learning tools include TensorFlow, PyTorch, scikitlearn, Keras, and Apache Spark MLlib. These tools offer a rich set of features and capabilities to support the development and deployment of machine learning models across various domains and applications.

Ask any question...

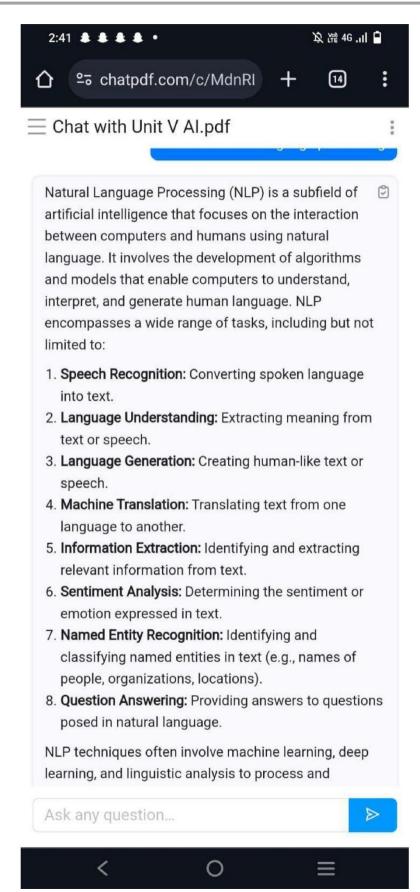




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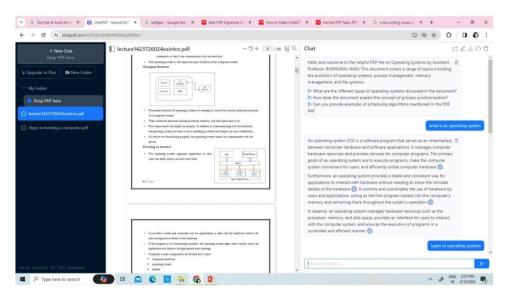




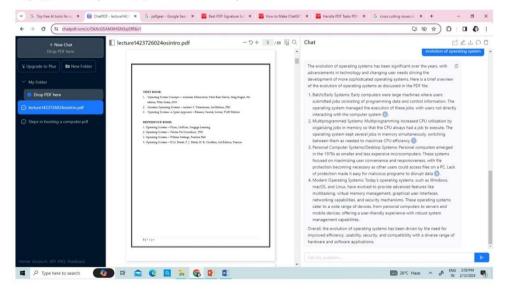
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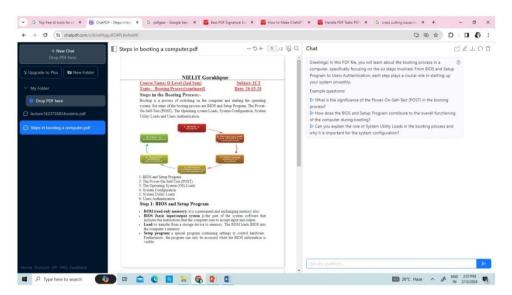




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