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	Code with AI (Unit-5)
	Building Web Apps with AI
	1. Choose Your Tech Stack:
	- Frontend: HTML/CSS/JS or frameworks
	like React, Vue.js, Angular.
	- Backend: Node is, Python (Django,
	Flask), etc.
	- AI Frameworks: TensorFlow, PyTorch,
	etc.
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	2. Integrate AI Models:
	- Decide on AI functionality: NLP, CV,
	recommendation systems, etc.
	- Train or use pre-trained models.
	- Expose models through APIs or
	integrate them into the backend.
	3. Implement UI:
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	- Design UI using HTML, CSS, JS, or frameworks Integrate components for AI interaction.
	4. Backend Development: - Set up server to handle requests Implement endpoints for AI interaction.
	5. API Integration (Optional): - Integrate pre-built AI APIs.
	6. <u>Testing:</u> - Test frontend, backend, and AI functionalities.
	7. Deployment: - Deploy app and backend to server or cloud.
	8. Monitoring and Maintenance: - Monitor performance Regularly update AI models.

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	Simple Step:
	1. Plan: Decide app features and AI use. 2. Design: Sketch app layout. 3. Tech: Choose HTML/CSS/JS for frontend, Python for backend. 4. Backend: Set up server, integrate AI. 5. Frontend: Code user interface. 6. Test: Ensure everything works. 7. Deploy: Put app online. 8. Monitor: Keep app updated.
	Data Mastery with Excel and ChatGPT
	1. Excel Basics: - Understand cells, rows, columns Learn basic functions: SUM, AVERAGE, etc Format data and cells.
	2. Data Analysis with Excel:

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	 Sort and filter data. Use pivot tables for summarizing data. Create charts and graphs.
	3. Advanced Excel Techniques: - Use VLOOKUP and HLOOKUP for data retrieval.
	- Master conditional formatting Learn array formulas for complex calculations.
	4. Excel Macros: - Record and run macros to automate tasks Write VBA code for custom macros.
	5. Data Cleaning and Preparation: - Remove duplicates and errors Convert data types and formats Handle missing values.
	6. Excel and ChatGPT Integration: - Use ChatGPT for data analysis insights Generate reports and summaries with ChatGPT.

MS edudrag 7. Collaboration and Sharing: - Share workbooks and collaborate in real-time. - Protect sensitive data with permissions and passwords. 8. Continuous Learning: - Stay updated with new Excel features. - Explore advanced topics like Power Query and Power Pirot. AI-driven Chatbots 1. Understanding Natural Language Processing (NLP): - Learn about NLP fundamentals. - Understand intents, entities, and context. 2. Choosing the Right AI Framework: - Explore frameworks like TensorFlow, PyTorch, and Dialogflow.

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	- Consider pre-built platforms for faster development.
	3. Designing Conversational Flows: - Define user journeys and conversation paths Design engaging and intuitive user experiences.
	4. Training Chatbot Models: - Collect and annotate training data Train models using machine learning algorithms.
	5. Integration with Messaging Platforms: - Integrate chatbots with popular messaging platforms like Facebook Messenger, Slack, etc.
	6. Continuous Learning and Improvement: - Implement feedback mechanisms for learning Use analytics to improve chatbot performance.

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	7. Multimodal Capabilities:
	7. Multimodal Capabilities: - Explore integrating voice and visual inputs.
	- Enable chatbots to handle diverse media formats.
	8. Ethical Considerations:
	- Ensure privacy and security of user data.
	- Prevent biases in chatbot responses.
	Building a Chatbot with ChatGPT-4
	1. Backend Setup:
	· Use Flask or Express.js for the backend server.
	- Set up routes to handle user messages and interact with the ChatGPT-4 API.
	2. Frontend Interface:
	- Design a chat interface using HTML,

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	CSS, and JaraScript.
	- Include an input box for users to type
	- Include an input box for users to type messages and a chat log to display the
	conversation.
	3. User Interaction:
	- Users interact with the chatbot by
	typing messages into the input box.
	- Chatbot responds with relevant
	answers based on the user's input.
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	4. ChatGPT-4 Integration: - Send user messages to the backend
	- Send user messages to the backend
	server.
	- Backend server communicates with the
	ChatGPT-4 API to generate responses.
	- Responses are sent back to the
	frontend and displayed in the chat log.
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	5. Continuous Learning:
	- Collect user feedback to improve the
	chatbot's responses over time.
	- Update the model and retrain it
	periodically to enhance its accuracy and effectiveness.
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	6. Deployment:
	6. Deployment: - Deploy the chatbot on a web server or cloud platform.
	- Make the chatbot accessible to users
	through a web browser or messaging platform.
	Building a Movie App with GPT-3.5 and DALLE
	1. Design & Frontend:
	- Design user-friendly interface.
	 Design user-friendly interface. Include search bar, recommendations, etc.
	2. Backend Setup:
	- Use Flask or Express.js.
	- Integrate GPT-3.5 and DALL E APIs.
	3. Movie Data:
	- Collect movie titles, descriptions, and
	images.

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	- Utilize TMDB or OMDB APIS.
	4. GPT-3.5 Integration: - Generate movie summaries Provide recommendations based on user input.
	5. DALL'E Integration: - Generate movie posters from descriptions Enhance visual experience.
	6. <u>User Interaction:</u> - Allow search by title or genre Chatbot for recommendations.
	7. <u>Deployment:</u> - Deploy on Heroku or AWS.
	Building a Chatbot with ChatGPT-4
	1. <u>Backend Setup:</u> - Use Flask or Express.js.

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	- Integrate with ChatGPT-4 API.
	2. Frontend Interface:
	- Design chat interface using HTML/CSS/JS.
	- Include input box and chat log.
	3. User Interaction:
	- Users type messages in the input box Chatbot responds with relevant answers.
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	4. ChatGPT-4 Integration: - Send user messages to ChatGPT-4 Receive responses and display them in the chat log.
	5. Continuous Learning:
	- Collect feedback to improve responses Update and refine the model over
	time.
	6. Deployment:

edudrag Deploy the chatbot on a server. Make it accessible to users. Fine tune the chatbot with your own data 1. Collect Data: - Gather a dataset of conversations or messages relevant to your domain. This could include customer support chats, forum discussions, or any other type of conversation. 2. Preprocess Data: - Clean and preprocess the data. Remove irrelevant information, handle special characters, and tokenize the text. 3. Fine-Tuning: - Fine-tune the ChatGPT-4 model using your dataset. You can use the Hugging Face Transformers library or OpenAI's fine-tuning API for this purpose.

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	Explanation: Fine-Tuning Chatbot with Your Own Data
	1. Collect Data:
	- Gather conversations or messages relevant to your domain.
	2. <u>Preprocess Data:</u> - Clean and tokenize the data Remove irrelevant information.
	3. Fine-Tuning: - Use Hugging Face Transformers or OpenAI's fine-tuning API Adjust hyperparameters.
	4. <u>Training:</u> - Train the model on your dataset Optimize performance.
	5. Evaluation: - Validate the model's performance on a separate set.

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	- Ensure generalization.
	6. Testing: - Test with real user inputs Collect feedback for improvements.
	7. Deployment: - Deploy the chatbot to production.
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