GANTT CHART

PROJECT TITLE	CropSync: AI-Driven Blockchain Solution for Smart Farming	INSTUTUTE & DEPARTMENT NAME	A.P SHAH INSTITUTE OF TECHNOLOGY -CSE(DS)				
PROJECT GUIDE	Prof. Poonam Pangarkar	DATE	4/10/25				
	Prof. Harsha Zope						

							PHASE ONE						PHASETWO					PHASE THREE						P	HASE FOUR		
WBS NUMBER	TASK TITLE	TASK OWNER	START DATE DUE	DATE DURATION (Weeks)	PCT OF TASK COMPLETE	WEEK 1	WEEK		WEEK	3	WEEK 4		WEEK 5		WEEK 6		WEEK 7		WEEK 8		WEEK 9		WEEK 10		WEEK 11	WEEK 12	
				(weeks)	COMPLETE	M T W R F	M T	W R F	M T W		T W F	R F M	T W	R F M	T W	R F			1 T W R	F M		F M				M T W	
1	Project Conception and Initiation																										
1.1	Research paper search	Shreyas Revankar, Harsh Shelke, Devansh Kopra, Sumit Samanta	6/10/24 6/16/2	1 1	100%																						
1.1.1	Research paper finalization	Shreyas Revankar, Harsh Shelke, Devansh Kopra, Sumit Samanta	6/17/24 6/24/2	1 1	100%																						
1.2	Project Title	Shreyas Revankar, Harsh Shelke, Devansh Kopra, Sumit Samanta	6/25/24 7/1/21	1	100%																						
1.3	Abstract	Sumit Samanta	7/2/24 7/9/24	1	100%																						
1.4	Objectives	Devansh Kopra, Harsh Shelke	7/10/24 7/17/2	1 1	100%																						
1.5	Literature Review	Shreyas Revankar, Harsh Shelke, Devansh Kopra, Sumit Samanta	7/18/24 7/25/2	1 1	100%																						
1.6	Problem Definition	Shreyas Revankar, Harsh Shelke, Devansh Kopra, Sumit Samanta	7/26/24 8/2/24	1	100%																						
1.7	Scope	Shreyas Revankar, Harsh Shelke, Devansh Kopra, Sumit Samanta	8/3/24 8/10/2		100%																						
1.8	Technology stack	Shreyas Revankar, Devansh Kopra, Sumit Samanta	8/11/24 8/18/2		100%																						
1.90	Applications	Shreyas Revankar, Harsh Shelke, Devansh Kopra, Sumit Samanta	8/19/24 8/26/2	1 1	100%																						
2	Project Design																										
2.1	Proposed System	Sumit Samanta, Devansh Kopra	8/27/24 9/10/2	1 2	100%																						
2.2	Design(Flow Of Modules)	Sumit Samanta, Harsh Shelke, Devansh Kopra	9/11/24 9/18/2		100%																						
2.3	Activity Diagram	Sumit Samanta, Devansh Kopra	9/19/24 9/26/2		100%																						
2.4	Use Case Diagram	Sumit Samanta, Devansh Kopra	9/27/24 10/4/2		100%																						
2.5	Sequence Diagram	Sumit Samanta	10/5/24 10/12/		100%																						
2.6	Description Of Use Case	Shreyas Revankar, Harsh Shelke, Devansh Kopra	10/13/24 10/20/		100%																						
2.7	Modules	Shreyas Revankar, Harsh Shelke, Devansh Kopra, Sumit Samanta	10/21/24 10/28/		100%																						
2.7.1	Application Module	Shreyas Revankar, Harsh Shelke, Devansh Kopra, Sumit Samanta	10/29/24 11/5/2		100%																						
2.8	Preparation Of Report	Shreyas Revankar, Harsh Shelke, Devansh Kopra, Sumit Samanta	11/6/24 11/13/	24 1	100%																						
3	Project Implementation																										
3.1	Development of Local Graphical User Interface	Shreyas Revankar, Harsh Shelke	8/14/24 9/28/2	1 4	100%																						
3.2	Setup of Local Backend Logic for ML Workflow Execution	Devansh Kopra, Harsh Shelke	9/29/24 10/13/	24 2	100%																						
3.3	Integration of Crop Recommendation System	Shreyas Revankar, Harsh Shelke	10/14/24 11/14/	24 4	100%																						
3.4	Development of Fertilizer Recommendation System	Devansh Kopra, Harsh Shelke	11/15/24 11/29	24 2	100%																						
3.5	Setting up of Multi Modal Code generation Pipeline	Sumit Samanta, Shreyas Revankar	11/30/24 12/30,		100%																						
3.6	Development of Crop Yield Prediction Module	Sumit Samanta, Shreyas Revankar	12/31/24 1/14/2		100%																						
3.7	Design and Integration of Blockchain Layer	Sumit Samanta	1/15/25 1/21/2		100%																						
3.8	Implementation of Data Collection Logic	Harsh Shelke, Devansh Kopra	1/22/25 2/5/25		100%																						
3.9	Development of Dynamic Data Analytics Dashboard	Devansh Kopra	2/6/25 2/20/2		100%																						
3.10	Label Encoding and Preprocessing Pipelines	Harsh Shelke, Devansh Kopra	2/21/25 3/7/25	2	100%																						
3.11	One-Hot Encoding for Yield Prediction Input Processing	Shreyas Revankar, Harsh Shelke, Devansh Kopra	2/23/25 3/2/25	2	100%																						
3.12	Integration of All Models into Unified Local System	Shreyas Revankar, Harsh Shelke, Devansh Kopra, Harsh Shelke	2/24/25 2/28/2		100%																						
3.13	Generation of Sustainability Badges based on Blockchain		2/24/25 3/3/25	4	100%																						
3.14	Project Packaging and Folder-Level Execution Management	nt Shreyas Revankar, Sumit Samanta	3/8/25 4/8/25	4	100%																						
4	Testing																										
4.1	Design of Manual and Automated Test Cases	Shreyas Revankar, Harsh Shelke, Devansh Kopra, Sumit Samanta	3/1/25 3/6/25		100%																						
4.2.1	Unit Testing of Crop Recommendation Module	Shreyas Revankar, Harsh Shelke	3/1/25 3/7/25		100%																						
4.2.2	Unit Testing of Fertilizer Suggestion System	Devansh Kopra, Sumit Samanta	3/2/25 3/8/25	1	100%																						
4.2.3	Unit Testing of Rainfall Prediction Function	Harsh Shelke, Shreyas Revankar	3/8/25 3/9/25		100%																						
4.2.4	Unit Testing of Crop Yield Regression Model	Harsh Shelke, Devansh Kopra	3/8/25 3/19/2		100%																						
4.2.5	Accuracy Testing of Crop Prediction Outputs	Sumit Samanta, Shreyas Revankar	3/9/25 3/21/2		100%																						
4.2.6	Accuracy Testing of Yield Regression Forecast	Shreyas Revankar, Harsh Shelke, Devansh Kopra, Sumit Samanta	3/10/25 3/3/25	1	100%																						
4.2.7	Logical Testing of Blockchain Badge Generation	Sumit Samanta	3/11/25 3/24/2		100%																						
4.2.8	Testing of JSON Input Parsing and Argument Handling	Harsh Shelke, Devansh Kopra	3/12/25 3/19/2		100%																						
4.2.9	Label Encoding and Decoding Consistency Testing	Shreyas Revankar, Harsh Shelke, Devansh Kopra, Sumit Samanta	3/12/25 3/15/2 3/14/25 3/19/2		100%																						
4.3.1	Testing of CSV File Integration and Data Loading	Devansh Kopra, Sumit Samanta	3/14/25 3/19/2 3/15/25 3/19/2		100%																						
	UI Testing of Flutter-Based Interface (Cross-Device)	Shreyas Revankar, Harsh Shelke																									
4.3.3	CLI-Based Input Execution Testing	Shreyas Revankar, Harsh Shelke, Devansh Kopra, Sumit Samanta Devansh Kopra, Sumit Samanta	3/16/25 3/29/2		100%																						
4.3.4	Dashboard Output Verification Based on ML Results	Devansh Kopra, Sumit Samanta Shreyas Revankar, Harsh Shelke, Devansh Kopra, Sumit Samanta	4/1/25 4/4/25		100%																						
4.3.5			4/3/25 4/5/25 4/2/25 4/6/25		100%																						
4.3.6	End-to-End Workflow Testing for Different User Scenarios																										
4.3./	Error Handling for Missing/Invalid CSV or User Input Data	riaisii siieike, pevalisii kupia	4/3/25 4/9/25																								
5	Report Preparation																										
5.1	Black Book	Shreyas Revankar, Harsh Shelke, Devansh Kopra, Sumit Samanta	3/21/25 3/28/2	1	100%																						
5.1	PPT	Harsh Shelke, Devansh Kopra	3/22/25 3/29/2	5 1	100%																						
5.1	Gantt Chart	Rohan Waghode, Meet Jamsutkar	3/28/25 3/28/2	5 1	100%																						