ML Spring 2025 Plan

Select a period to highlight at right. A legend describing the o	charting follows				Period Highlight:	Plan Duration Actual Start Komplete Mactual (beyond plan) Complete (beyond plan)
стіvіту	PLAN START	PLAN DURATION	ACTUAL START	ACTUAL DURATION	PERCENT COMPLETE	PERIODS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56
Dataset Collection & Review: HMDA, Loan Approval Prediction, Lending Club	1	2	1	2	100%	
Proposal Preparation	2	2	2	2	100%	1
Data Cleaning & Preprocessing: Fair Encoding,	4	2	4	2	0%	1 T
Causal Inference, SMOTE, Normalization Feature Engineering: Mutual Information-Based Selection	4	2	4	2	0%	
Selection Model 1 (Supervised - Logistic Regression): Implementation & Evaluation	5	3	5	3	0%	
Model 2 (Unsupervised - SOM + Classifier):	5	3	5	3	0%	
Implementation & Evaluation Fairness Adjustment: Adversarial Training to	7	3	7	3	0%	
Reduce Bias Initial Evaluation: Confusion Matrix, Precision,	6	2	6	2	0%	
Recall, Accuracy Midterm Report Submission: GitHub Updates +	7	1	7	1	0%	
Contribution Table Model 3 (Supervised - SGD): Implementation &	8	2	8	2	0%	
Advanced Model Tuning: Hyperparameter	9	2	9	2	0%	
Optimization for SGD and SOM models Fairness Metrics Evaluation: Assess Demographic	9	2	9	2	0%	
Disparities Using Appropriate Fairness Metrics Cross-Dataset Validation	9	2	9	2	0%	
Model Comparison: Trade-Off Analysis on Accuracy, Fairness, and Interpretability	10	2	10	2	0%	
Ethical Review: Focus on Fairness, Bias Correction, and Socioeconomic Impact	10	2	10	2	0%	
Final Report Completion: Comprehensive Model Analysis + Visualizations	11	2	11	2	0%	
Final Presentation Preparation: Visualizations + (ey Insights	11	2	11	2	0%	
Final Presentation & Q&A: 9-Minute Presentation + 3-Minute Q&A	12	1	12	1	0%	
GitHub Repository Final Updates: Code, /isualizations, Updated README.md	12	1	12	1	0%	
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