Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1. Literature Survey																				
1.1 Identify relevant research topics	■																			
1.2 Conduct review of existing literature		■																		
2. Data Acquisition and Preprocessing																				
2.1 Define criteria for comment labeling			■	■																
2.2 Collect and label comment data				■	■															
2.3 Clean and pre-process data					■	■	■													
2.4 Feature engineering						■	■													
2.5 Split data into training, validation, and testing sets							■	■												
3. Model Selection and Training																				
3.1 Research and select suitable machine learning model									■	■										
3.2 Train the model on the prepared data										■	■									
3.3 Evaluate model performance on validation set												■	■							
3.4 Fine-tune the model if necessary													■							
4. Real-time Integration and User Scoring																				
4.1 Design and develop real-time comment processing system.														■	■					
4.2 Integrate NLP functionalities for comment analysis															■	■				
4.3 Implement user scoring system based on model output																■	■			
5. Threshold Setting and Action																				
5.1 Design interface for streamers to set minimum score threshold																		■	■	■
5.2 Implement automated actions based on score and threshold																		■	■	■
6. Monitoring and System Improvement																				
6.1 Monitor system performance (accuracy, fairness, latency)																		Ongoing		
6.2 Address potential biases and refine model (As needed)																		Ongoing		
6.3 Gather user feedback and iterate on system design (As needed)																		Ongoing		

Weeks