## XGBoost Predictive Model for TikTok's Claim Classification: EDA, Hypothesis Testing, Logistic Regression, Tree-Based Models

TikTok seeks a predictive model which will reduce the backlog of user reports and prioritize them more efficiently. Machine learning behind the model will extract claims or propositions within TikTok videos and comments and classify each data point as a claim or opinion.

Milestone	Tasks	Deliverables/Reports	Relevant Stakeholder (Optional Activity)
1	Establish structure for project workflow (PACE)	Global-level project document	Rosie Mae Bradshaw — DS Manager
	Plan *		
1a	Write a project proposal		Mary Joanna Rodgers — PM Officer
	Plan		
2	Compile summary information about the data	Data files ready for EDA	Orion Rainier — DS
	Analyze		
2a	Begin exploring the data		Orion Rainier — DS
	Analyze		
3	Data exploration and cleaning	EDA report	Orion Rainier — DS
	Construct and Analyze Analyze		

3a	Visualization building  Analyze and Construct	Tableau dashboard/visualizations	Mary Joanna Rodgers — PM Officer
4	Compute descriptive statistics	Analysis of testing results between two important variables	Willow Jaffey — DS Lead
	Analyze *		
4a	Conduct hypothesis testing		Orion Rainier — DS
	Analyze and Construct		
5	Build a regression model		Willow Jaffey — DS Lead
	Analyze and Construct		
5a	Evaluate the model	Determine the success of the model	Rosie Mae Bradshaw — DS Manager
	Execute *		
6	Build a machine learning model	Final model	Willow Jaffey — DS Lead
	Construct		
6a	Communicate final insights with stakeholders	Report to all stakeholders	Willow Jaffey — DS Lead
	Execute *		