APPENDIX

Term Project Rubric

Criteria	Ratings
Code Walkthrough	Uploaded on Canvas and will be explained during presentation
Presentation Skills Includes time management	Followed time demarcation as per guidelines
Discussion / Q&A	Yes, allotted 5 mins at the end of presentation
Demo	Will be provided during class presentation
Visualization	Yes provided in the report for EDA and model results
Report	Followed IEEE Format and checked for grammar accuracy and plagiarism Big file, so uploaded in GDrive accessible to SJSU https://drive.google.com/drive/folders/1GQvU0hwPrVUHw5ekxKRBKXJg26ECcDfL?usp=sharing
Version Control	Uploaded code to a GitHub repository with proper commits throughout https://github.com/shnkreddy98/DATA245_ForestFireSizePrediction
Relates to sustainability	The work is toward SDGs 13 and 15 of the United Nations: Climate Action, Life on Land as described in the report
Lessons learned Included in the report and presentation?	Yes, we have summarized key learnings into 5 lessons included in both the report and slides.
Prospects of winning competition / publication	The project comprehensively researches several methods to predict the size of wildfires with significantly good accuracy and can be extended to enter into publications
Innovation	We think that our solution is improved and novel by aiding in the research of forest fire prediction and prevention as not only have we included meteorological factors (wind,

	temperature, humidity, precipitation) into account, but also we have taken topographic factors into account. A Lot of research has been done taking three or four factors into consideration but we have taken 6 different factors into consideration.
Evaluation of performance	Conducted cross validation for improving accuracy metrics
Teamwork	Yes all members worked together to achieve project completion
Technical difficulty	The project covers all phases of data preprocessing, feature engineering, training and evaluating 5 different machine learning models and employing techniques to improve model accuracy and performance across several criteria. All these steps were achieved used Python programing
Practiced pair programming?	Yes, in the trello you can see that at least two of us were assigned to the same task at a time.
Practiced agile / scrum (1-week sprints)	Yes. Link to Trello board for implementation https://trello.com/invite/b/vwvJsXjB/ATTI095036adbc15e6cb8f34860b4d16ab7d75B7FB42/ml-project
Used Grammarly / other tools for language? Grammarly free version is sufficient; can use other tools as well. Submit report screenshot on Canvas.	Yes
Slides	Uploaded on Canvas
Saving the model for quick demo See https://www.kaggle.com/pr	Yes

mohanty/python-how-to-save-and-load-ml-models Links to an external site. Upload the model file if it is < 2MB. Otherwise, save it in the cloud accessible to the ISAs and me and provide the URL in the report.	
Used LaTeX	Yes https://www.overleaf.com/6175326321rtsfptqmmqqc#e21159
Used creative presentation techniques	Yes, used Google SlidesAI.io for more effective and collaborative presentations https://workspace.google.com/marketplace/app/slidesaiio_create_slides_with_ai/904276957168
Literature Survey	Yes, conducted a comprehensive literature survey and documented it in the project report. Have organized survey into coherent subsections and provided citations