



IPL Sentiment Pipeline Submission Challenge

Official Submission Brochure



1 Challenge Statement

Build a machine learning pipeline that predicts sentiment toward an IPL team keyword from noisy IPL fan posts. Each row contains a tweet or statement, a subject keyword, and a sentiment label. Your task is to explore vectorizers and classifiers, compare pipeline combinations, select final components, and justify your choices.

2 What Students Are Building



Vectorizer

Converts text into numerical features.

Examples: CountVectorizer, TF-IDF, character TF-IDF, HashingVectorizer.



Classifier

Uses features to predict sentiment.

Examples: Naive Bayes, Logistic Regression, LinearSVC, SGDClassifier.



Justification

Explain why the chosen components fit noisy Indian English, Hinglish, typos, and IPL fan language.

3 Submission Snapshot



Task: IPL team sentiment analysis



Input: subject_keyword + "[SEP]" + tweet



Output: positive / negative / neutral



Submit: GitHub repository URL



Must include: Notebook, JSON, README, results, pkl if created

4 Official Resources



Dataset Repo:

github.com/HimanshuKhale/ipl_sentiment



Colab Notebook:

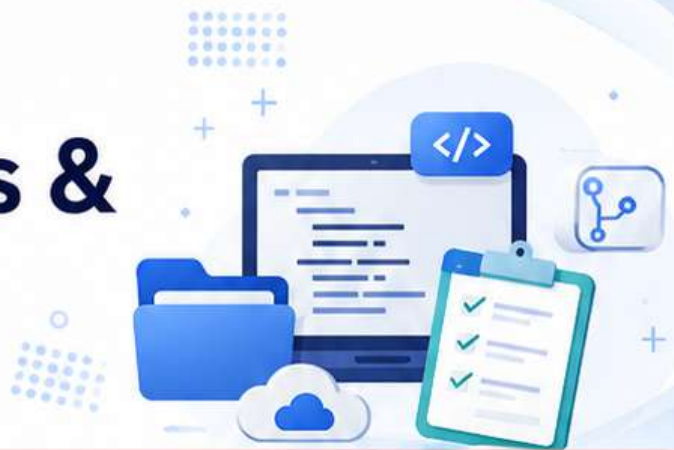
colab.research.google.com/drive/1ppNtfC5jKyLTrWz-Fhp9HHcvTPnOTdDV



Final submission is the GitHub repository URL containing all required artifacts.



Submission Rules & GitHub Format



1 Required Rules

- ✓ Upload all artifacts to GitHub.
- ✓ Share only the GitHub repository URL as the final submission.
- ✓ Notebook must run from top to bottom.
- ✓ Keep the subject keyword in model input.
- ✓ Include explanations and justifications.

2 Disallowed Practices

- ⚠ No screenshots-only submission.
- ⚠ No missing README.
- ⚠ No unexplained pickle files.
- ⚠ No train-test leakage.
- ⚠ No heavy-model spam without justification.

3 GitHub Repository Submission Format

Create one repository for your challenge submission. Put every artifact inside this repo and share the repo URL. The repository must be accessible to evaluators. Public is easiest; if private, grant evaluator access before the deadline.



4 Recommended Repository Name

`ipl-sentiment-pipeline-challenge-<your-name-or-team>`



5 Recommended Folder Structure

```
ipl-sentiment-pipeline-challenge/  
├── README.md  
├── notebooks/  
│   └── completed_pipeline_selector_notebook.ipynb  
├── manifests/  
│   └── submission_manifest.json  
├── results/  
│   ├── results_80R.csv  
│   └── results_300R.csv  
├── models/  
│   ├── best_model.pkl  
│   └── model_card.md  
├── explanations/  
│   ├── vectorizer_classifier_justification.md  
│   ├── error_analysis.md  
│   └── final_reflection.md  
├── requirements.txt  
└── sample_predictions.md
```



Every required artifact should live inside one GitHub repository.

Final submission = the repository URL.



Artifacts, Evaluation & Final Checklist



1	Required Artifacts	Required?	Purpose
	README.md	Required	Explains project, task, dataset, approach, how to run, and conclusion.
	Completed notebook	Required	Shows the full experiment and must run top to bottom.
	submission_manifest.json	Required	Structured summary of selected vectorizers, classifiers, parameters, and hypothesis.
	results_80R.csv	Required	Results from the starter 80-row experiment.
	results_300R.csv	If used / recommended	Results from the 300-row round.
	.pkl model files	If created / recommended	Saved best model or demo pipeline.
	model_card.md	If pkl submitted	Explains what the pkl contains, input format, metrics, and limitations.
	justification markdown	Required	Explains why selected vectorizers and classifiers were chosen.
	error_analysis.md	Recommended	Shows where the model made mistakes and what was learned.
	requirements.txt	Required	Lists libraries needed to reproduce the notebook.
	sample_predictions.md	Recommended	Shows sample inputs and predictions.

2 Evaluation Parameters



Model
performance
40%

Accuracy, Macro F1,
Weighted F1, precision,
recall, confusion matrix.



Efficiency
15%

Training time, prediction
time, file size, local-
compute suitability.



Diversity
15%

Variety of vectorizer
families and classifier
families.



Simplicity and
suitability
10%

Appropriate model
choice for noisy
IPL text.



Generalization
10%

Works on larger or
unseen datasets.

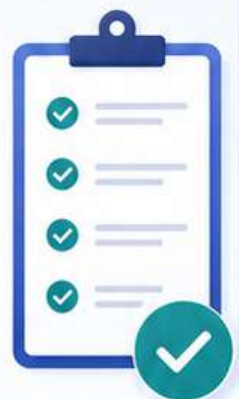


Explanation
quality
10%

README, justification,
error analysis, final
reflection.

3 Final Submission Checklist

- ✓ Completed notebook included
- ✓ submission_manifest.json included
- ✓ results_80R.csv included
- ✓ results_300R.csv included if used
- ✓ README included
- ✓ requirements.txt included
- ✓ pkl files documented if submitted
- ✓ explanations and justifications included
- ✓ Repository is accessible to evaluators



Final submission:

Share the GitHub repository URL containing all required artifacts.

<https://github.com/your-username/ipl-sentiment>



You are not only submitting a model — you are submitting a machine learning strategy.