

Rule Book

Machine Learning

Teknofest Pakistan

3rd January, 2026





About Competition

The Machine Learning (ML) Model Challenge is an exciting competition where participants design, train, and test machine learning models to solve real-world prediction problems. This competition is designed for individuals or teams with experience in data science, machine learning, and AI. Participants are challenged to showcase their technical proficiency, creativity, and ability to deliver accurate, efficient, and optimized predictive models within a set timeframe. The competition encourages innovation, promotes best practices in ML workflows, and emphasizes model interpretability and performance.

Objectives of the Competition

- Evaluate participants' ability to preprocess data, select features, and build predictive models.
- Promote critical thinking in solving real-world problems using machine learning.
- Encourage optimization, accuracy, and efficiency in model training and testing.
- Foster creativity in exploring different ML techniques and approaches for prediction.



The Rules

Eligibility: Open to students or professionals with a background in Machine Learning, Data Science, Computer Science, AI, or related fields.

Team Composition: Teams of up to 4 members are allowed. Individual participation is also permitted.

Registration: Participants must register through the official website.

Time Limit:

- Competition duration will be 4–6 hours (exact time communicated prior to the event).
- All submissions must be completed before the deadline; late submissions will not be accepted.

Problem Statement:

- Participants will receive a dataset with specific predictive objectives.
- Problem details will be revealed at the start of the competition.

Tools & Technologies Allowed

- Programming languages: Python, R, or any other languages suitable for ML development.
- Libraries & Frameworks: TensorFlow, PyTorch, scikit-learn, XGBoost, LightGBM, Pandas, NumPy, Matplotlib, Seaborn, etc.
- Environment: Participants may use local machines or provided cloud-based environments.
- External datasets: Only the provided datasets may be used. Using external datasets without permission is prohibited.

Environment Setup

- Participants may use their **own laptops**.
- The environment may be **restricted** to ensure fairness (no internet except allowed resources, if specified).



Submission Process

Submit the trained ML model along with:

- Source code
- Preprocessing scripts
- Training & testing notebooks
- Documentation explaining approach, methodology, and evaluation metrics

Submissions must be uploaded via the official platform before the time limit.

Participants must adhere to the specified folder structure and naming conventions provided by organizers.

Scoring & Judging

- **Model Accuracy:** Primary evaluation based on the model's predictive accuracy on the test dataset.
- **Performance & Efficiency:** Points for models that run efficiently, with optimized runtime and resource usage.
- **Data Preprocessing & Feature Engineering:** Higher scores for effective and innovative data preprocessing and feature selection techniques.
- **Model Robustness & Validation:** Bonus points for models with proper validation, cross-validation, and robustness testing.
- **Documentation & Explanation:** Clear explanation of methodology, decisions, and interpretation of results will be evaluated.
- **Creativity & Innovation:** Bonus for exploring advanced ML techniques or creative approaches to improve model performance.
- **Partial Credit:** Partial credit may be awarded if only part of the prediction task is successfully completed.



Disqualification Rules

- **External Assistance:** Receiving help from outsiders or using unauthorized tools will lead to disqualification.
- **Communication:** Teams may not communicate with other participants during the competition. Sharing models or results is prohibited.
- **Environment Violations:** Use of pre-trained models (unless allowed), unauthorized datasets, or any prohibited software will result in disqualification.
- **Multiple Submissions:** Submitting multiple versions of the same model or using multiple accounts will lead to disqualification.

External Assistance

- Any form of **external help** or use of unauthorized tools is strictly prohibited.

Communication

- Participants may not communicate or collaborate with individuals **outside their team** during the competition.
- Sharing solutions or code is not allowed.

Environment Violations

- Use of **pre-written code**, unauthorized software, or tools that violate competition rules will result in immediate disqualification.

Multiple Submissions

- Only **one submission per team** is allowed.
- Multiple accounts or duplicate entries will lead to disqualification.



Prizes

Awards

- Prizes will be awarded to the **top-performing teams**.
- Prize details will be announced separately.

Recognition

- Winners will be featured on the **official event platforms** and may receive certificates of achievement.

Additional Rules

- The organizing committee reserves the right to **modify rules, time limits, or competition structure** if necessary.
- Judges' decisions are **final and non-contestable**.
- Winners will be announced at the **end of the event**.

Prizes are **non-transferable** and cannot be exchanged for cash or other items.

Contact Information

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