Trustworthy Machine Learning Seminar

Grading Rubrics

Grading of each criterion will be done using a scale of 0/50/70/100%.

Seminar Presentation Rubric (100 points)

Criterion	Pts	Exemplary (A)
Technical Understanding & Correctness	25	Explains key ideas, math, and algorithmic steps correctly; anticipates confusions; no factual errors.
Literature Positioning	15	Frames problem and approach within the relevant literature; clarifies novelty vs. incremental advance.
Trustworthiness Analysis	15	Identifies relevant dimensions (fairness, privacy, robustness, alignment, attack surfaces); discusses metrics and limitations.
Methodology & Assumptions	10	States formal assumptions; examines implications of assumptions on applicability of method
Empirical Rigor	10	Discuss baselines, ablations, stats/uncertainty, appropriate metrics; identifies any issues with evaluation.
Slide Quality & Organization	10	Clear structure, readable figures/equations, helpful schematics.
Delivery, Timing, Engagement	10	On time, confident, invites questions, good pacing.
Discussion Facilitation	5	Prepares sharp prompts, moderates Q&A, connects to other readings.

Scoring Sheet (for instructor use):

- Technical correctness (25): ___
- Literature positioning (15): ___
- Trustworthiness analysis (15): ___
- Methodology/assumptions (10): ___
- Empirical rigor (10): ___
- Slides/organization (10): ___
- Delivery/timing (10): ___
- Discussion facilitation (5): ___

Total: ___/100

Paper Critique Rubric (100 points)

Criterion	Pts	Exemplary (A)
Accurate Summary	15	Faithful, concise, captures claims and evidence; no straw-manning.
Significance & Positioning	15	Assesses importance, situates vs. close prior work, states novelty.
Methodological Soundness & Assumptions	20	Examines assumptions and validity of design/theory.
Evaluation Quality	20	Checks reasonableness of baselines, metrics, ablations, and validity of results; notes if anything is missing or underwhelming.
Trustworthiness Connection	15	Connects the paper to the appropriate broader theme(s) of trustworthiness; considers implications of the work
Constructive Suggestions	10	Specific follow-ups or questions that would strengthen the work.

Scoring Sheet (for instructor use):

- Summary (15): ___
- Significance (15): ___
- Methodology (20): ___
- Evaluation (20): ___
- Trustworthiness (15): ___
- Suggestions (10): ___

Total: ___/100

Project Selection Rubric (100 points)

Criterion	Pts	Exemplary (A)
Problem Statement & Novelty	40	Clearly articulates a nontrivial research question in TML, explains why it matters and your approach is novel.
Techniques & Feasibility	40	Outlines concrete methods/approaches that feasible within the semester timeline and are computationally feasible.
Connection to Trustworthiness	20	Explicitly ties to robustness, fairness, privacy, alignment, or other aspects of TML

Scoring Sheet (for instructor use):

- Problem Statement & Novelty (40): ___
- Techniques & Feasibility (40): ___
- Connection to Trustworthiness (20): ___

Total: ___/100

Progress Report Rubric (100 points)

Criterion	Pts	Exemplary (A)
Introduction & Problem Statement	15	Clear statement of research problem and its significance for TML.
Background & Related Work	15	Situates project within literature; contrasts with prior work.
Methodology & Experimental Design	25	Detailed description of methods, datasets, models, metrics, and baselines.
Initial Results & Analysis	25	Presents at least half of experiments; interprets results rigorously; identifies limitations.
Challenges & Adaptation	10	*If appropriate*, explains obstacles faced and justified adjustments to plan.
Clarity & Organization	10	ICLR workshop-paper style, coherent structure, professional writing.

Scoring Sheet (for instructor use):

- Introduction & Problem Statement (15): ___
- Background & Related Work (15): ___
- Methodology & Experimental Design (25): ___
- Initial Results & Analysis (25): ___
- Challenges & Adaptation (10): ___
- Clarity & Organization (10): ___

Total: ___/100

Project Presentation Rubric (100 points)

Criterion	Pts	Exemplary (A)
Problem Motivation	15	Clearly states the problem, why it matters for trustworthy ML, and its significance.
Contributions & Relation to Prior Work	20	Articulates main contributions, compares fairly to prior literature, highlights novelty.
Method Explanation	20	Provides intuitive and technically accurate explanation of method or theoretical results; both high-level and precise details accessible.
Evaluation & Results	20	Presents empirical results or formal guarantees; includes appropriate baselines/metrics; interprets results rigorously.
Limitations & Future Work	10	Thoughtfully discusses shortcomings, assumptions, and potential extensions.
Delivery & Engagement	10	Both team members speak; well-paced 20-minute recording; slides are clear and professional.
Q&A Participation	5	Engages actively in live discussion; answers questions thoughtfully and accurately.

Scoring Sheet (for instructor use):

- Problem Motivation (15): ___
- Contributions & Relation to Prior Work (20): ___
- Method Explanation (20): ___
- Evaluation & Results (20): ___
- Limitations & Future Work (10): ___
- Delivery & Engagement (10): ___
- Q&A Participation (5): ___

Total: ___/100

Deliverables Rubric (100 points)

Criterion	Pts	Exemplary (A)
Reproducibility & GitHub Repo	40	Complete, documented code/data/scripts; straightforward reproduction of results; instructions clear.
Final Report (ICLR workshop format)	40	Thorough, rigorous workshop-style paper covering problem, methods, results, and conclusions; clear writing and figures. All issues I identified in the progress report should be rectified.
Slide Deck	10	Should be present.
Presentation (20-min prerecorded)	10	Box link should be present and accessible.

Scoring Sheet (for instructor use):

- Reproducibility & GitHub Repo (40): ___
- Final Report (ICLR workshop format) (40): ___
- Slide Deck (10): ___
- Presentation (10): ___

Total: ___/100