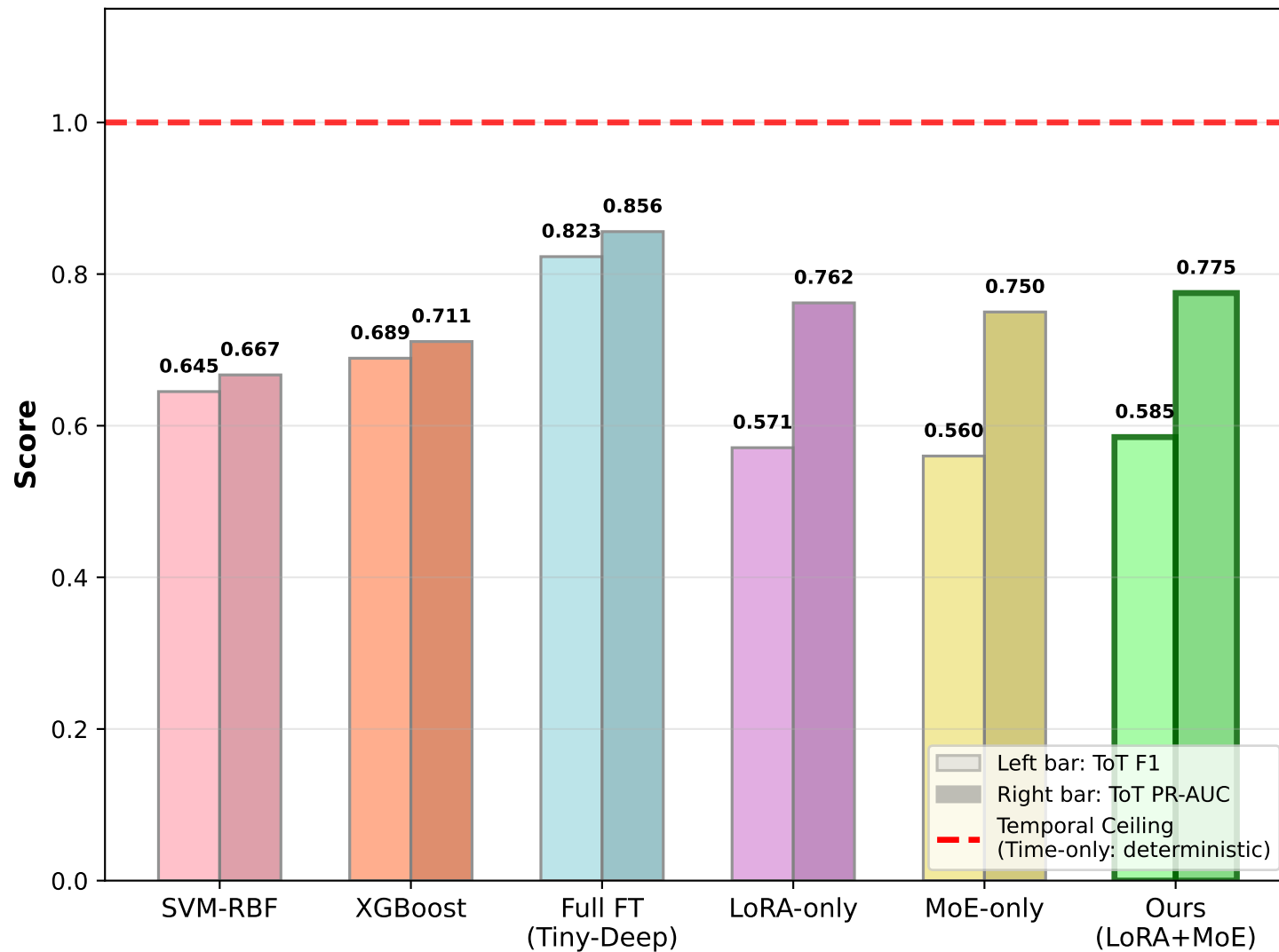**Temporal Ceiling Analysis - ToT vs ACL Performance**

Time-on-Task (ToT) Classification Performance

Affective-Cognitive Load (ACL) Classification Performance (Physiology Contribution)

Left panel (ToT):
- SVM-RBF: 0.645, 0.667
- XGBoost: 0.689, 0.711
- Full FT (Tiny-Deep): 0.823, 0.856
- LoRA-only: 0.571, 0.762
- MoE-only: 0.560, 0.750
- Ours (LoRA+MoE): 0.585, 0.775

Legend:
- Left bar: ToT F1
- Right bar: ToT PR-AUC
- Temporal Ceiling (Time-only: deterministic)

Right panel (ACL):
- SVM-RBF: 0.381, 0.587
- XGBoost: 0.437, 0.647
- Full FT (Tiny-Deep): 0.477, 0.674
- LoRA-only: 0.519, 0.688
- MoE-only: 0.510, 0.690
- Ours (LoRA+MoE): 0.545, 0.705

Legend:
- Left bar: ACL F1
- Right bar: ACL PR-AUC