

# AMD AI Premier League

Team: IISc\_UG

# Question Model

- ▶ Qwen-3 4B not very good for question generation
- ▶ Limited data available for training
- ▶ Difficult to precisely judge quality of outputs for loss calculations

# Question Model

- ▶ Improved model quality with Prompt Tuning
- ▶ Used Few Shot prompting to improve question generation
- ▶ Questions were generated using Gemini 2.5 Pro
- ▶ Prioritized correct questions over complicated questions

# Answer Model

- ▶ Qwen-4B performed decently on answer generation
- ▶ However questions generated were wrong sometimes
- ▶ We need precise questions to improve answer model

# Answer Model

- ▶ Used Supervised Fine Tuning (SFT) to improve answer quality
- ▶ Generated questions from the question model
- ▶ Manually verified the answers to use as training data
- ▶ Tried various hyperparameter combinations to get the best model

**Thank You**