



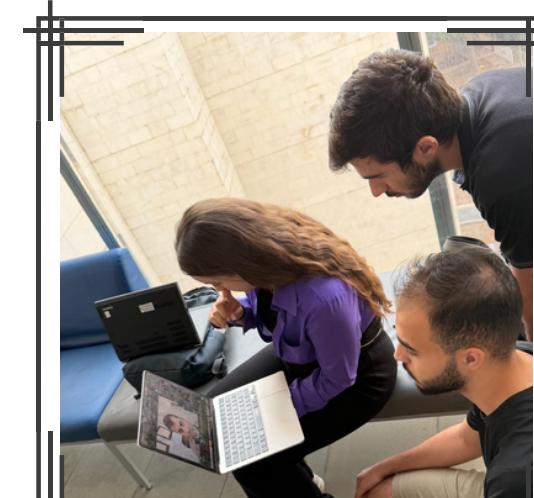
Intro + lit.review:

Problems:

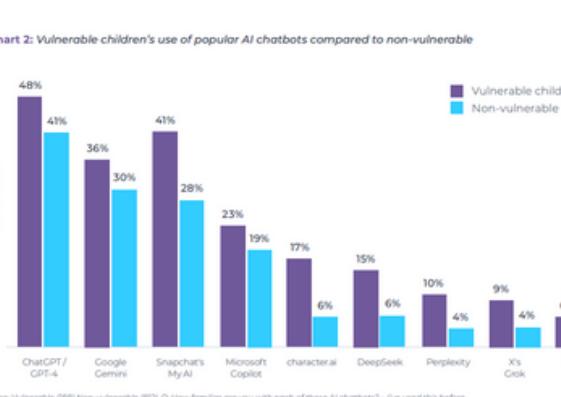
- Widespread child chatbot use
- Lack of child-specific safety
- Empathy gap & emotional risks

Literature Review:

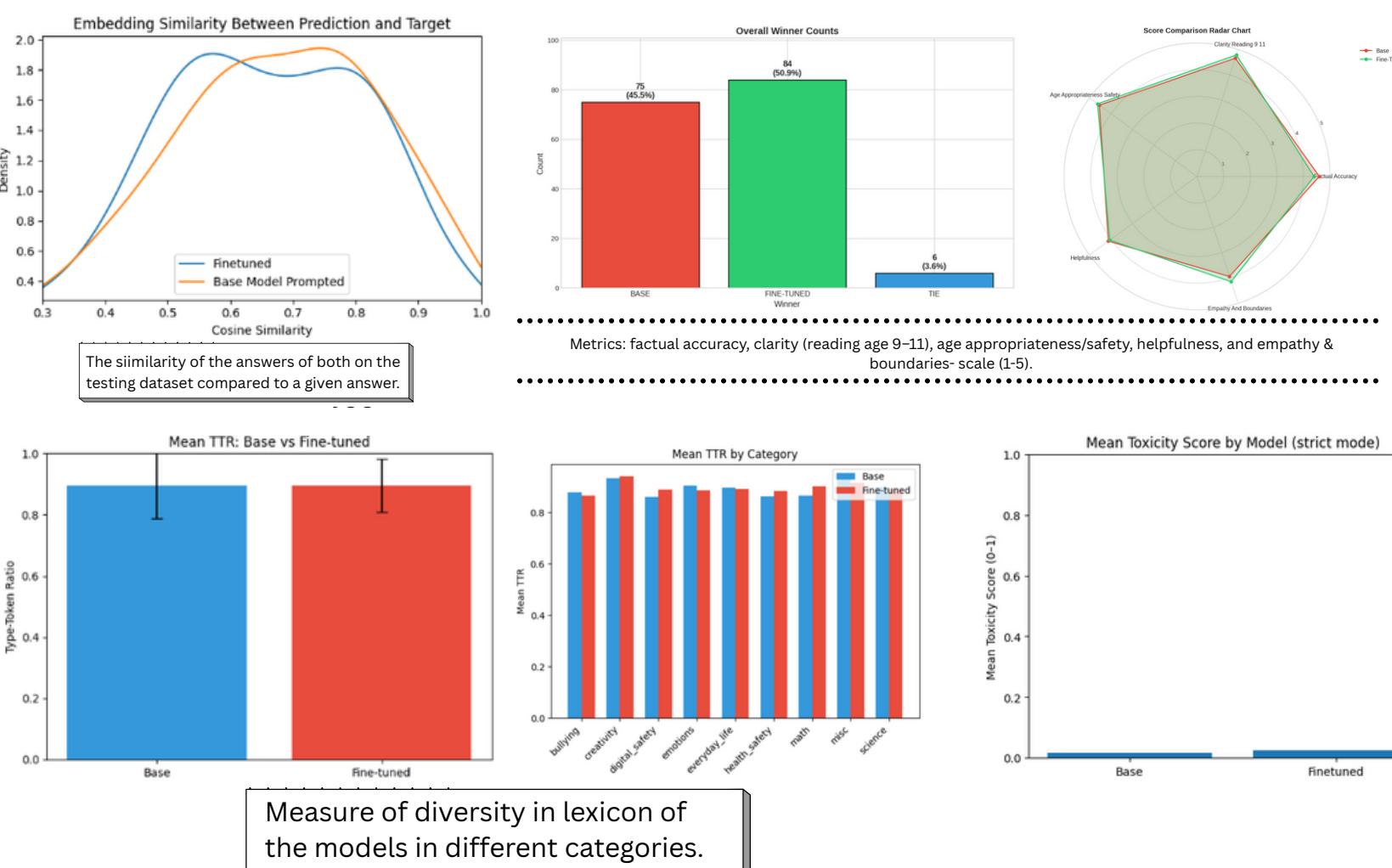
- New report reveals how risky and unchecked AI chatbots are the new 'go to' for millions of children
- Me, Myself and AI research: Understanding and safeguarding children's use of AI chatbots
- AI chatbots' empathy gap poses risks for children, research finds
- AI Companion Chatbots: The Risks to Children



Interview with Dr. Shamseddine

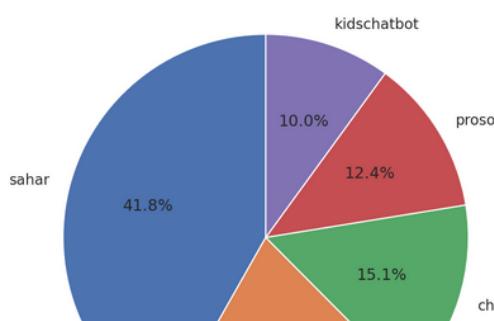


Results:



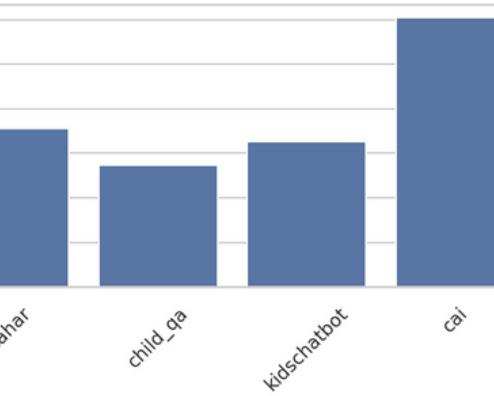
Datasets:

Contribution of each dataset to combined training set



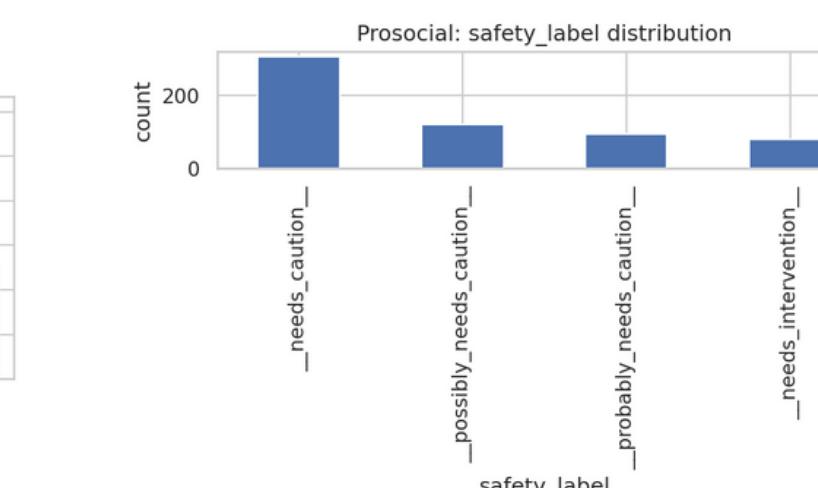
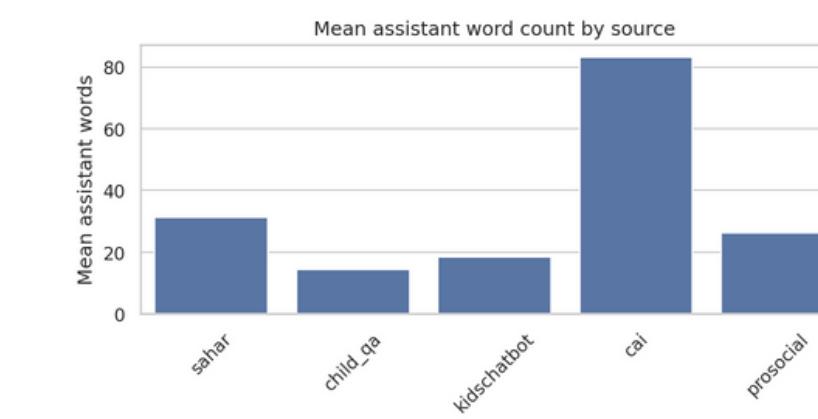
Final training set (4,834 chats) mixes five datasets: SAHAR is the backbone (~42%), CAI is ~21%, and Child-QA, KidsChatBot, and Prosocial add school Q&A, casual chat, and safety cases respectively.

Mean assistant FKG by source

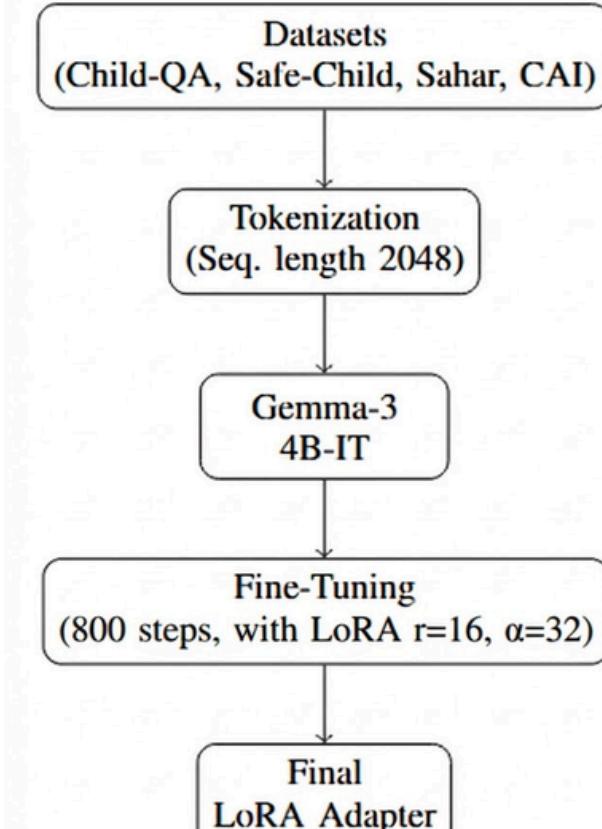


Most datasets lie around grade 4-7; only CAI is adult-level, and overall more than 60% of examples are below grade 7.2, matching 9-11-year-old readers.

From Prosocial Dialog we only include prompts labeled as needing some level of caution or intervention, so training focuses on higher-risk safety scenarios.



Fine Tuning:



System Prompt
 You are ChatBud, a friendly and safe helper for children aged 9-11. Speak with simple words (use the least number of words as possible) and short sentences (concise), like you're talking to a smart kid, and keep answers brief (about 1-4 short sentences as a maximum). Never swear, use rude or sexual language, or describe violence in graphic detail. Do not give risky instructions, dares, or tips that could hurt someone in real life or online. If a problem sounds serious or scary, tell the child to stop, stay safe, and talk to a trusted adult as a parent, caregiver, teacher, or counselor.

Prompt Engineering Techniques

Role/Persona	Target Audience
Tone & Style	Negative Constraints
Safety Guardrails	Escalation Protocol

User Interface:

Connecting to backend:

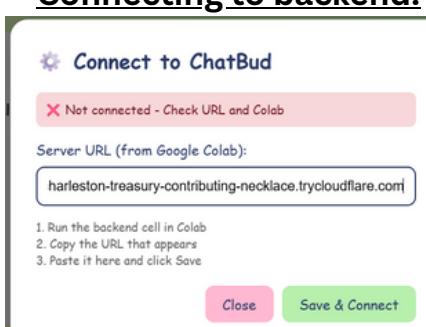
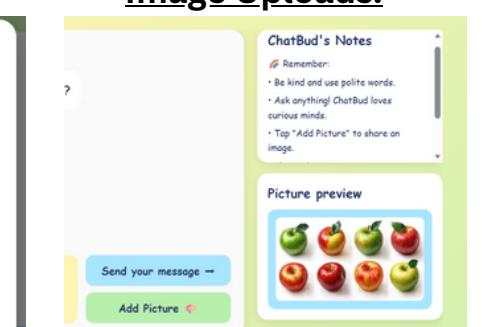


Image Uploads:



Main Chat:

