



Meet Zhorai!

- Interactive, intelligent conversational agent
- Workshop format
- 3rd to 5th graders

Big AI Ideas



Natural Interaction



Learning



Representation & Reasoning



Societal Impact/





Motivation

Conversational Al becomes commonplace technology

Explore Al through natural interaction

Bring transparency to tools we engineer



Education

Objectives

- L. How does an agent learn new information?
- 2. How does the agent represent language?
- B. How do machines classify concepts?
- What are the limitations of ML and why?
- 5. What are the social implications?

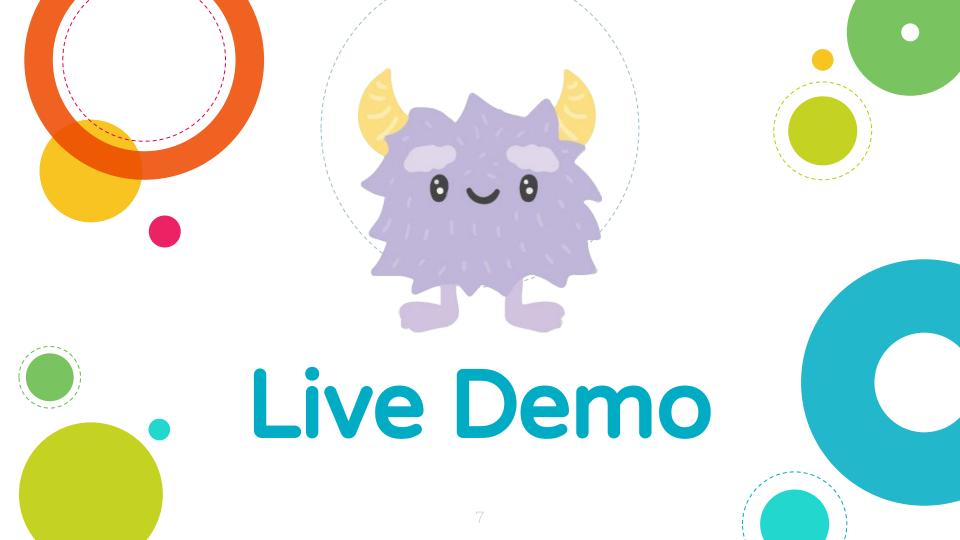
Assessment

- L. Individual student worksheet
- Testing understanding through discussion



Activity Breakdown

		\mathcal{L}				
		Name	Description	Estimated Time (min)	Online/Unplugged/ Discussion	
	1	Warm Up	Pre-Assessments + Introduction to Zhorai	10	Online, Unplugged	
	2	Module 1	Understanding Knowledge Representation in Machines	10	Online, Discussion	
	3	Module 2	Teaching New Knowledge to Machines	10	Online, Discussion	
	4	Module 3	Witnessing Machine Learning Classification	10	Online, Discussion	
	5	Module 4	AI and Ethics Discussion	15	Discussion, Unplugged	
	6	Cool Down	Post-Assessments	5	Unplugged	





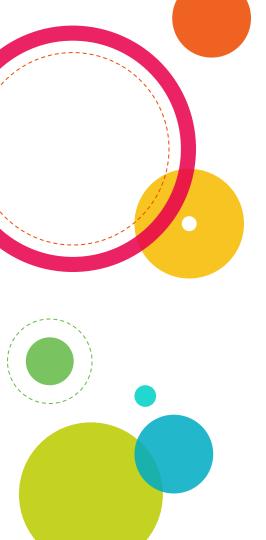
Activity Resources

- Teacher quide
- Laptop (3-5 students per device) with a working microphone and speaker
- Pre-activity assessment
- Post-activity assessment
- Exercise Worksheet
- Pencils

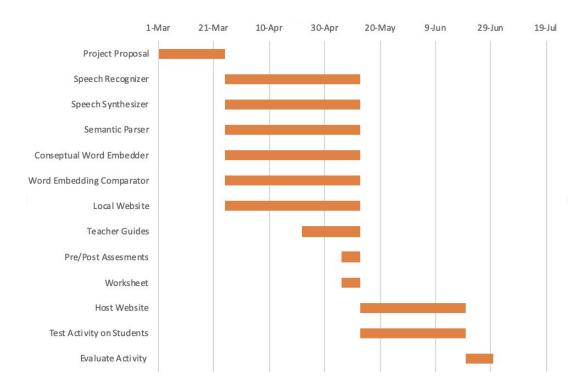


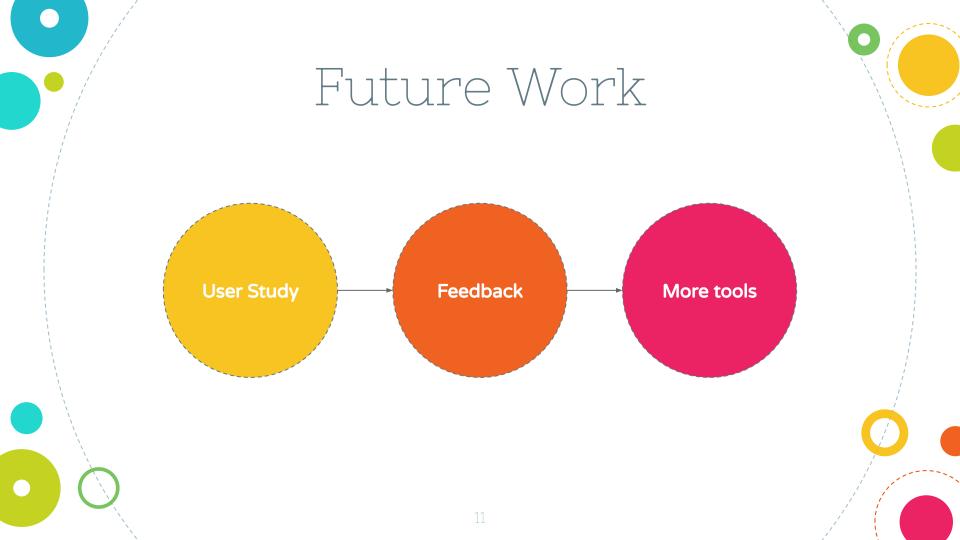
Technical Components

- Speech Recognizer
- Speech Synthesizer
- Semantic Parser
- Conceptual Word Embedder
- Word Embedding Comparator
- Website



Project Status





Thanks!



Any questions?