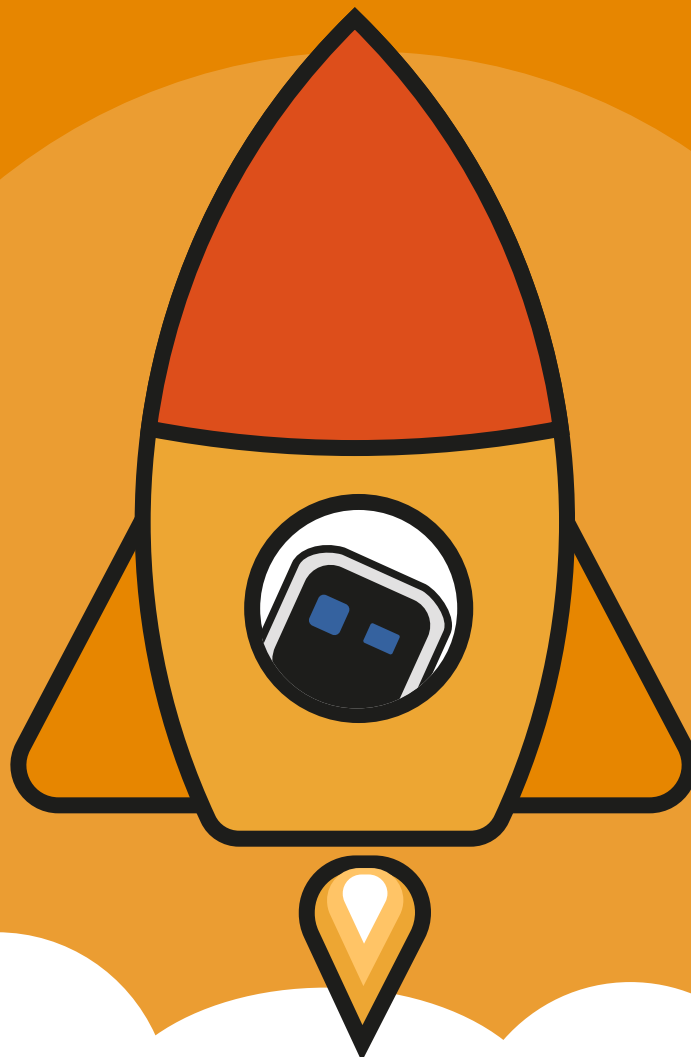
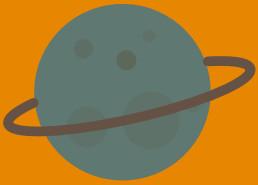


AHANA'S AI LEARNING REPORT

CONGRATULATIONS!

Hi Ahana,
Congratulations on
completing the Beginner
Course at ReadyAI Lab



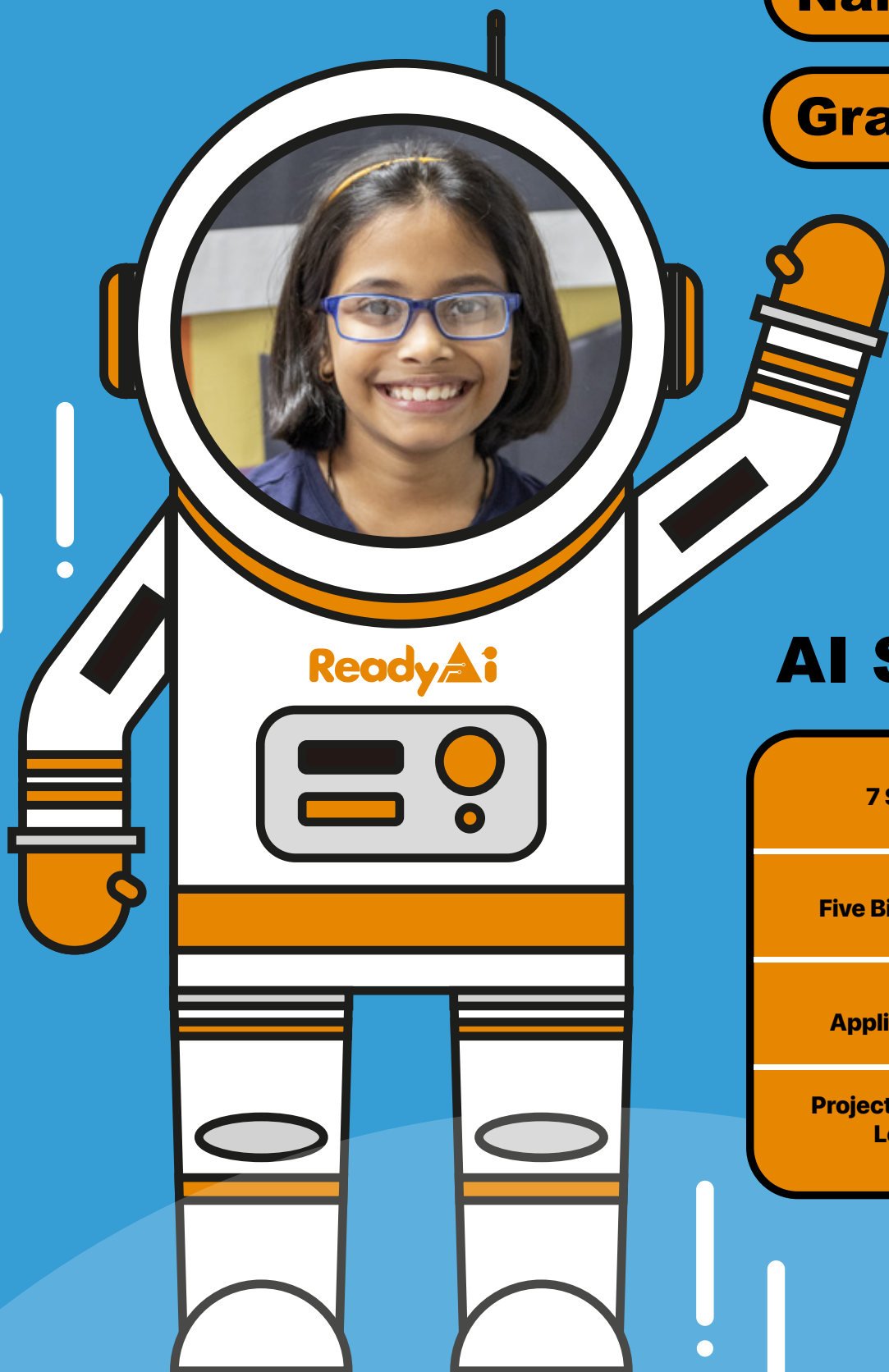
AI Profile

Name

Ahana

Grade

3



AI Skills

7 Skills to Assess



Five Big Ideas



Six Applications



Project-based Learning



What You Learned

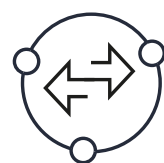
Must Have Learned

1

7 Skills
to assess



Critical Thinking



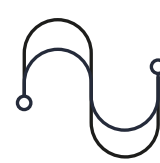
Complex
Communication



Quantitative
Literacy



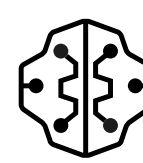
Global & Cultural
Awareness



Adaptability,
Initiative



Decision-Making



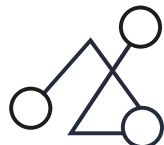
Habits of Mind

2

Five Big
Ideas



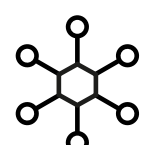
Perception



Representation &
Reasoning



Machine Learning



Human-AI
Interaction



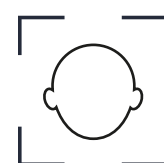
Societal Impact

3

Six AI
Applications



Object Recognition



Facial Recognition



Speech Recognition



Speech Generation



Object
Manipulation



Landmark-based
Navigation

4

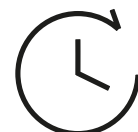
PBL



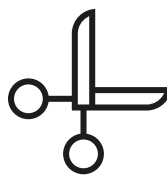
Project Design



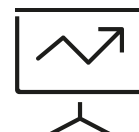
Story Telling



Time Management



Handcraft Skills



Presentation Skill



Collaboration &
Team Work



Problem Solving



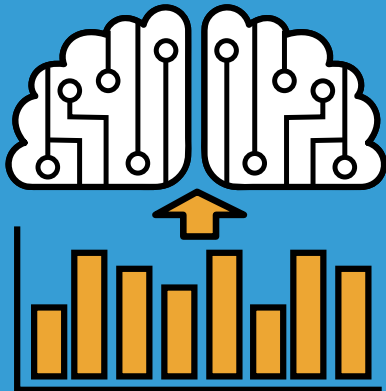
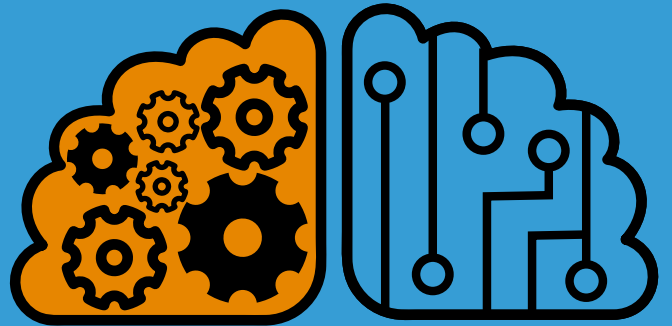
Civic & Citizenship



Lesson 1

1

What AI is
What AI is not



2

Robots completing tasks vs.
AI making decisions

3

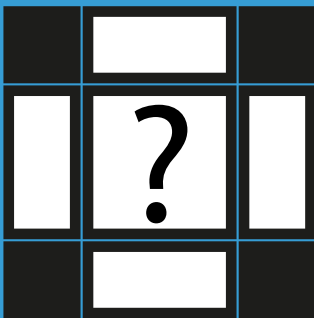
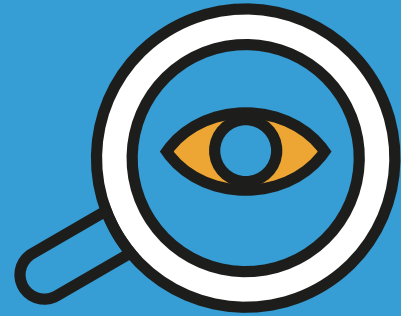
Introduction to Five Big Ideas in
AI (Perception,
Decision-Making, Learning,
Human-AI Interaction and
Societal Impact)



Lesson 2

1

Computer vision works by detecting edges, lines, and patterns



2

Cozmo can differentiate his three cubes by recognizing their unique markers

3

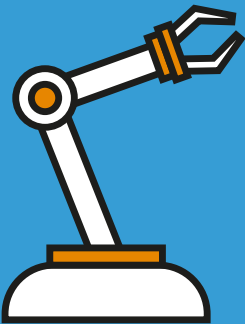
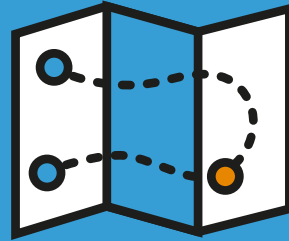
Facial detection involves extracting facial landmarks such as eyes and nose



Lesson 3

1

Cozmo (and other AI units) navigate through the world using path-planning algorithms

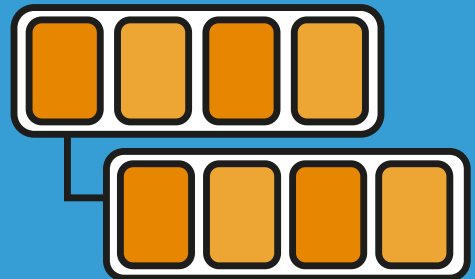


2

What objects Cozmo can and cannot manipulate and why

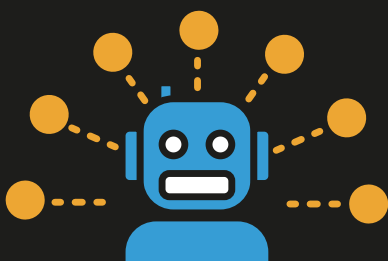
3

In Calypso and other programming languages like Python, we use **indentation** to distinguish structure



4

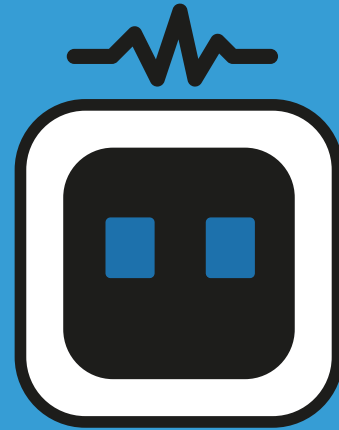
Calypso uses parallel programming which means that under each **state**, multiple processing elements will run simultaneously to solve a problem



Lesson 4

1

Cozmo (and other AI units) have conversations with us using speech recognition and speech generation technology

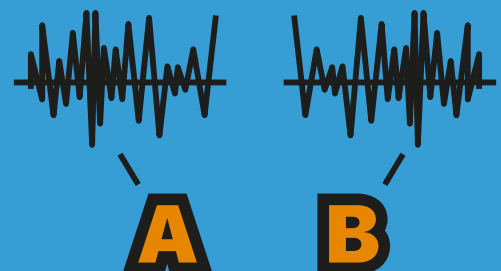


2

Computers understand language by extracting features from recordings and decoding them with acoustic and language models

3

An AI unit pronounces an English word by producing the phonemes that make up that word, one by one



Timeline

Oct 2, 2019

Lesson 1

You played with Cozmo, our AI robot and coded your first line of code in Calypso!

Oct 9, 2019

Lesson 2

You coded a short demo that simulates how AI can promote manufacturing safety. You also learned about how facial recognition works at the basic level.

Oct 16, 2019

Lesson 3

You programmed Cozmo to move around an obstacle cube and then move toward a goal cube.

Oct 23, 2019

Lesson 4

You learned about speech recognition and speech generation. To finish out the beginner course, you created a stimulation in which Cozmo acted as a firefighter, employing at least three AI applications.

THE SHINE OF READYAI LAB



BE THE FUTURE

