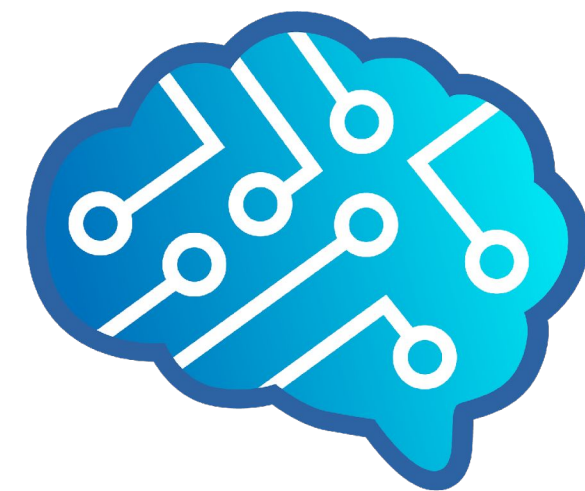


# Getting started with MyComputerBrain



DIGITAL  
TECHNOLOGIES  
INSTITUTE

web: <https://mycomputerbrain.net>  
email: [enquiries@digital-technologies.institute](mailto:enquiries@digital-technologies.institute)

## Background and History



- Heading up Digital Technologies Institute
- Research Director at SAP Australia & Asia-Pacific
- Father of 7 children
- Doctor of Computer Science (University of Queensland)
- Founder, Young ICT Explorers
- Founder, Bebras Challenge Australia
- Chief Nerd, MyComputerBrain

# **Certificates of Participation, Recording, Workshop Slides**

Will be emailed by tomorrow mid-day



## Agenda

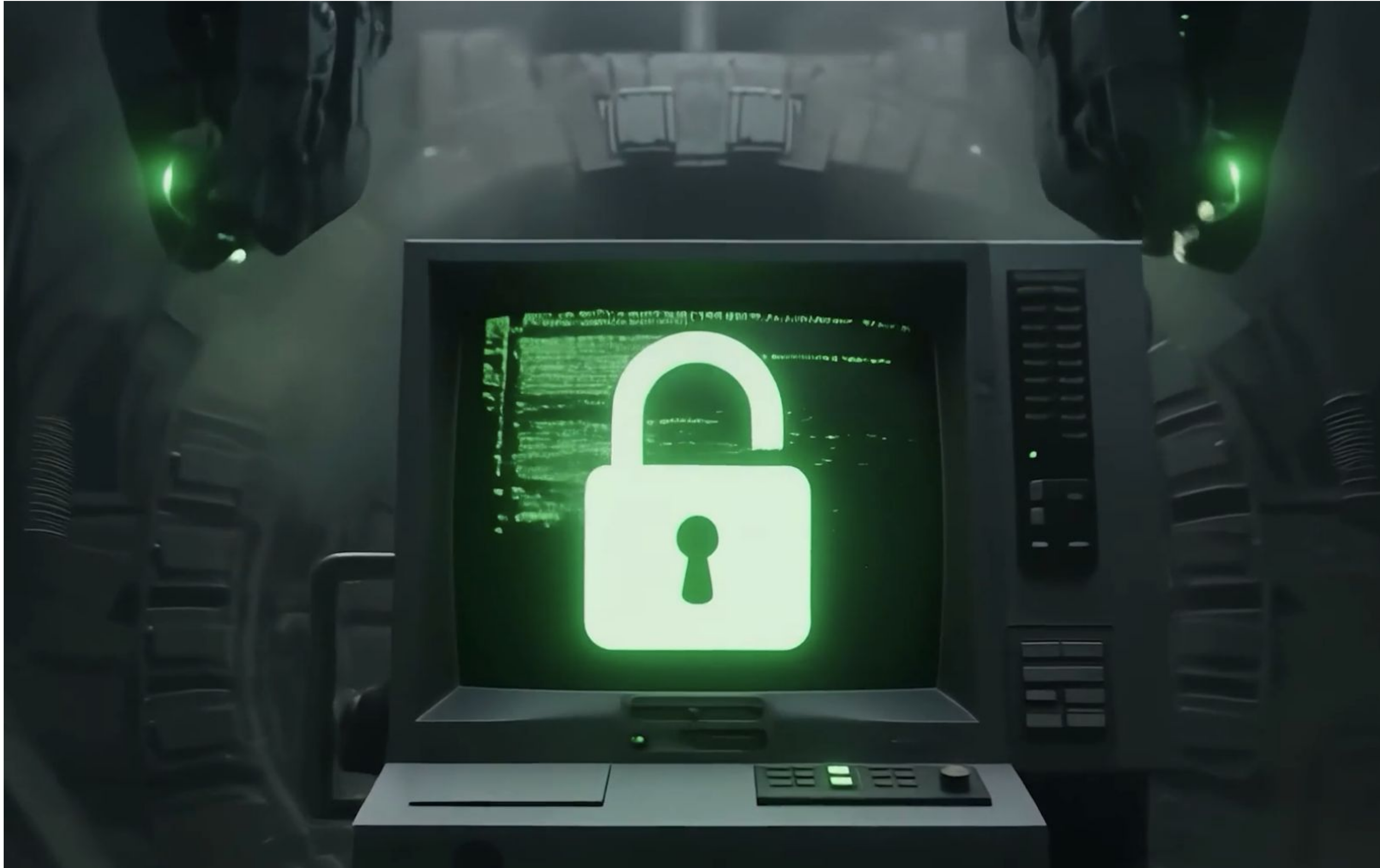
- What is MyComputerBrain?
- Philosophy, Pedagogy
- Key features
- As a Teacher
- As a Student
- Our privacy commitment
- Courses & Activities, Recent Releases
- More features - SafeAI
- Roadmap
- Q&A

# What is MyComputerBrain?



- Australian-made educational platform for primary and secondary schools
- Developing since 2017 to simplify the teaching and learning of Digital Tech: Digital systems, AI, cybersecurity, coding.
- New: Mathematics

# Our philosophy

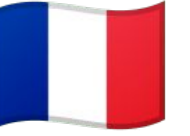


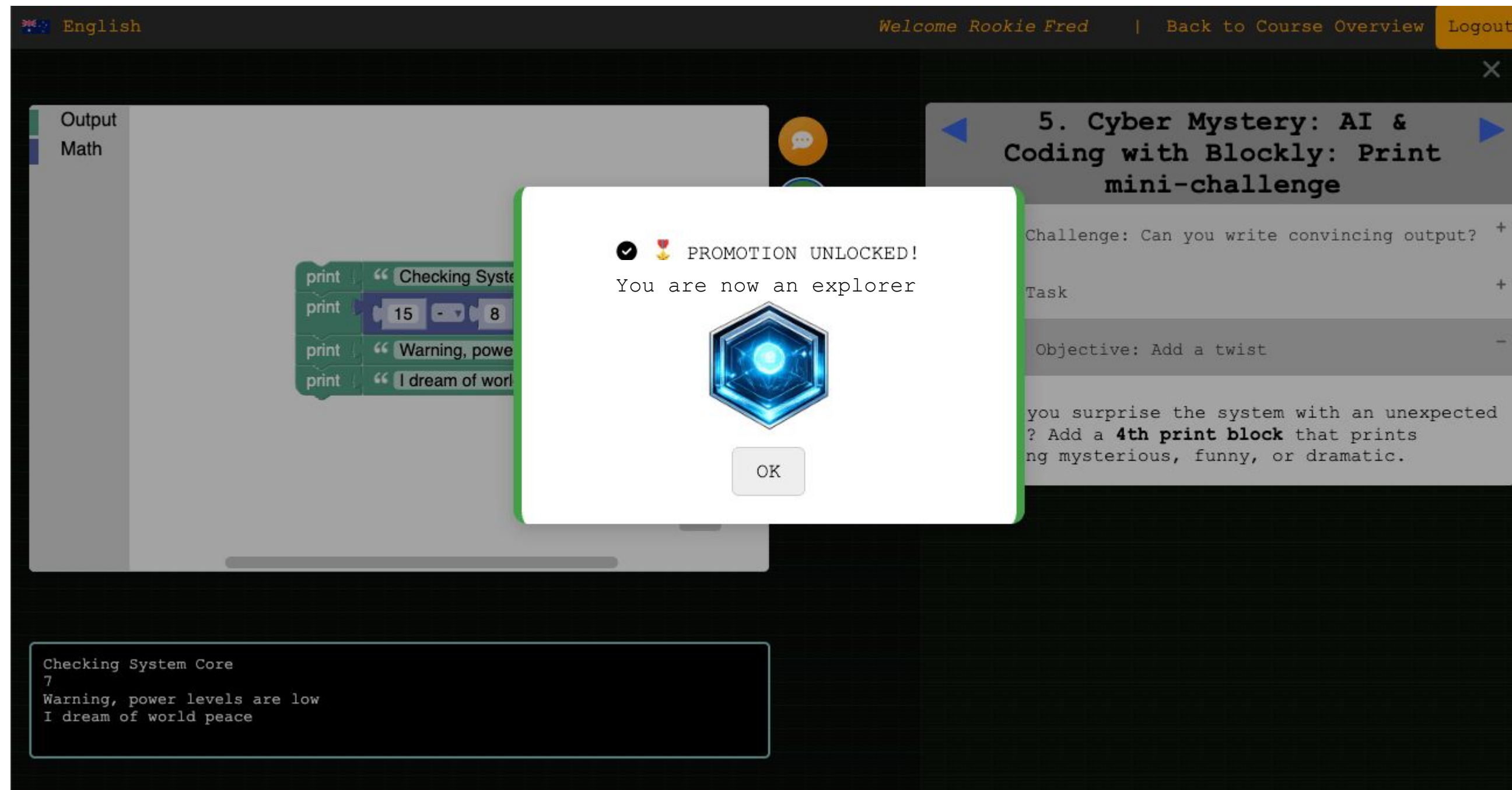
- Align with the learning styles of gens Z and Alpha, which are driven by gaming and social media.
- Complex content is best taught through engaging **storytelling**, videos, music and narration.
- Learning should feel less like being taught and more like actively doing **purposeful** exploration.
- But do not compromise the depth of learning and explicit teaching.

# Engaging, deep learning

Let's look at some defining  
features of MyComputerBrain



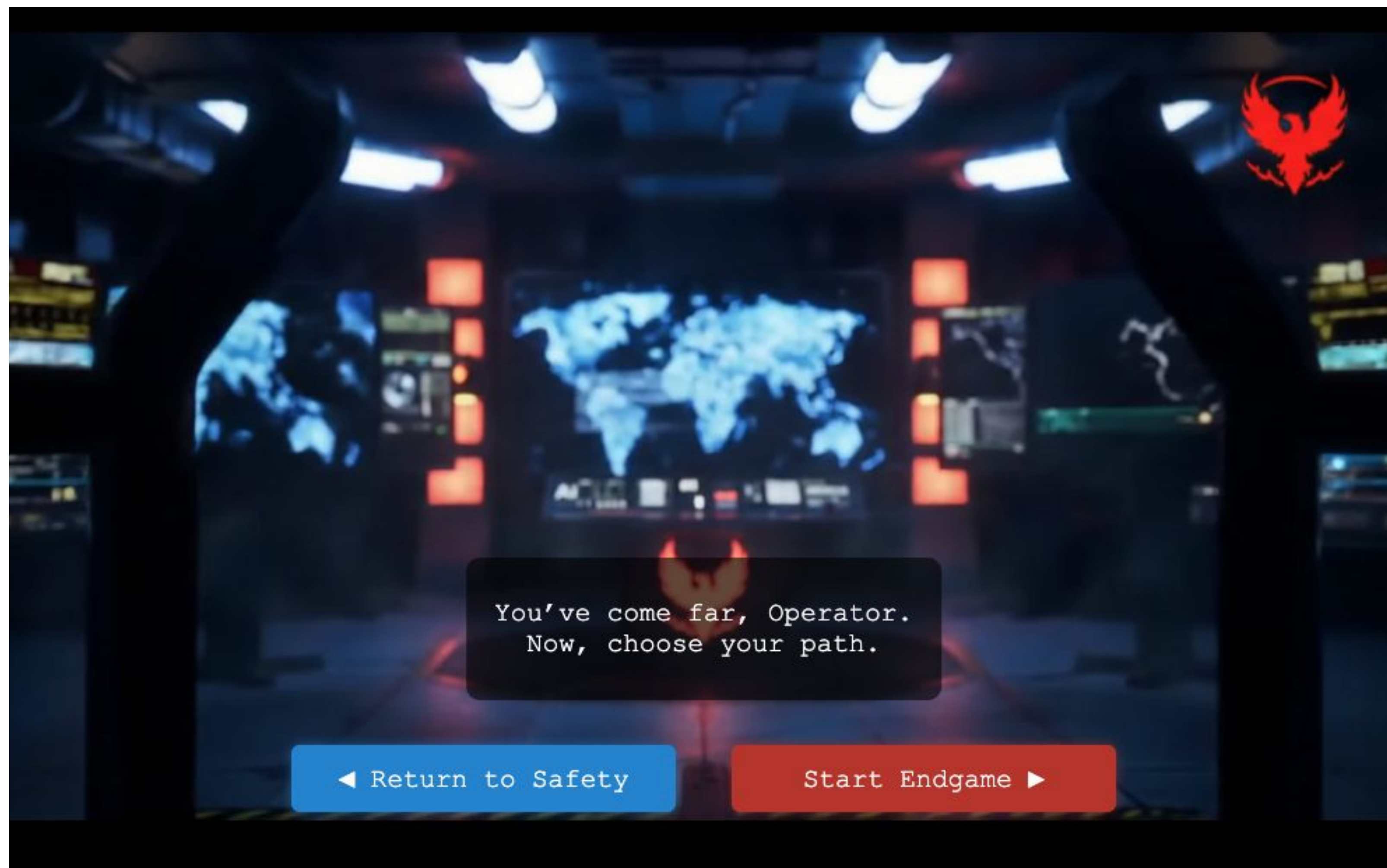
- ✓ ST4S-assessed
- ✓ Minimal personal data footprint
- ✓ Highly-engaging content: Videos, sounds, music, stories
- ✓ Python, Blockly and non-coding activities
- ✓ Curriculum-aligned
- ✓ Safe AI
- ✓ Multi-lingual     
 



- ✓ Course Certificates
- ✓ Rank Progression
- ✓ Code auto-marking
- ✓ Quizzes (spaced repetition)
- ✓ Narration
- ✓ Learning Progression
- ✓ Self-tracking
- ✓ Student Progress Tracking
- ✓ Works tablet-native



# Demo

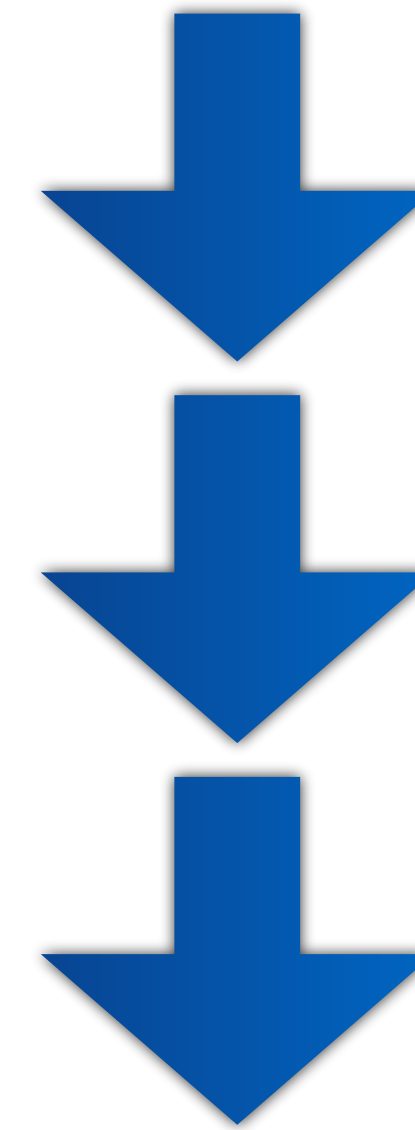


Our courses  
gently connect to  
popular themes in  
Sci-Fi Movies

# Pedagogy

Courses consist of Learning Modules. Each Module typically consists of four parts:

- 2x Learning by doing: small examples, fixing broken code, missions
- Quiz
- Mini-challenge



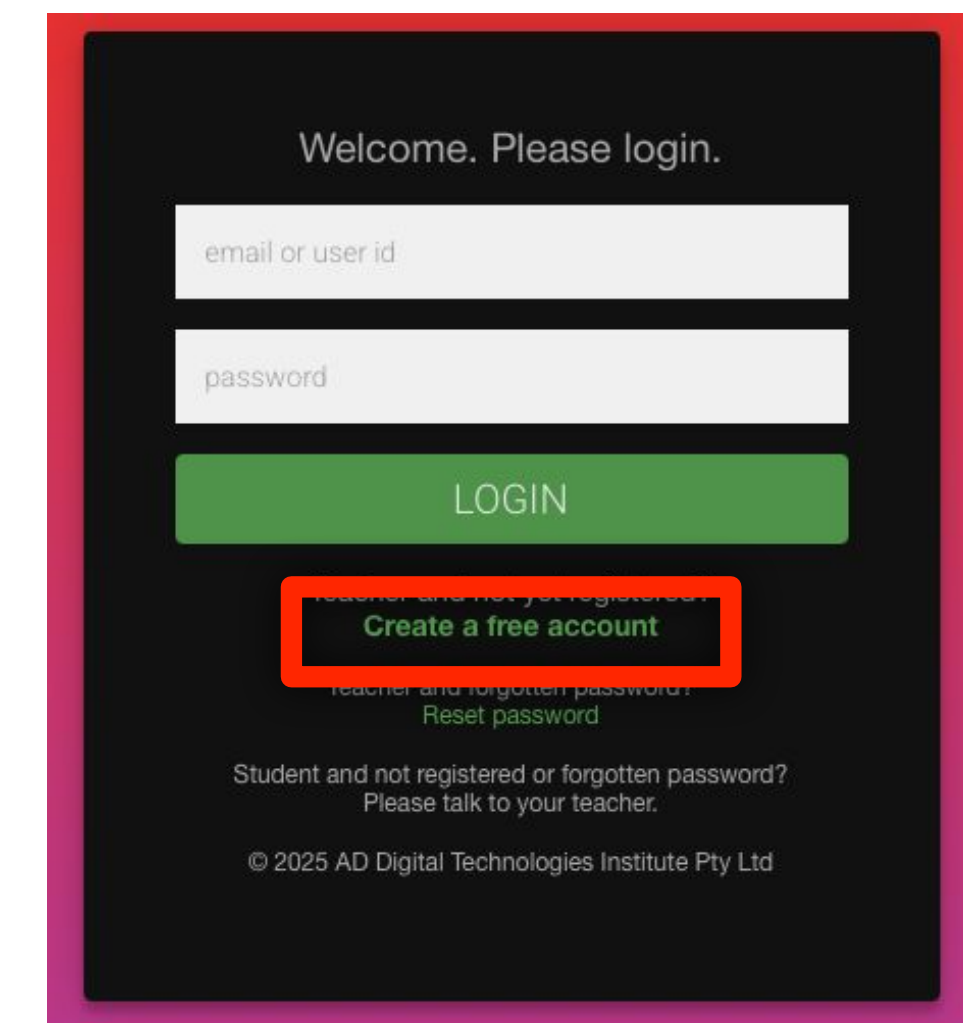
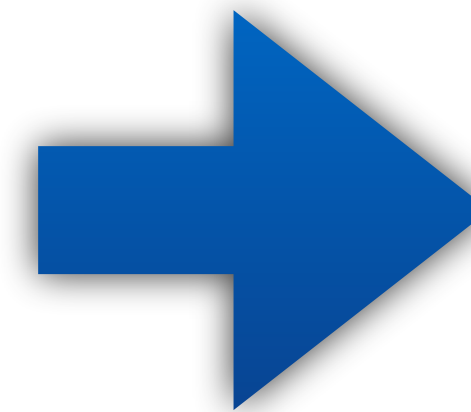
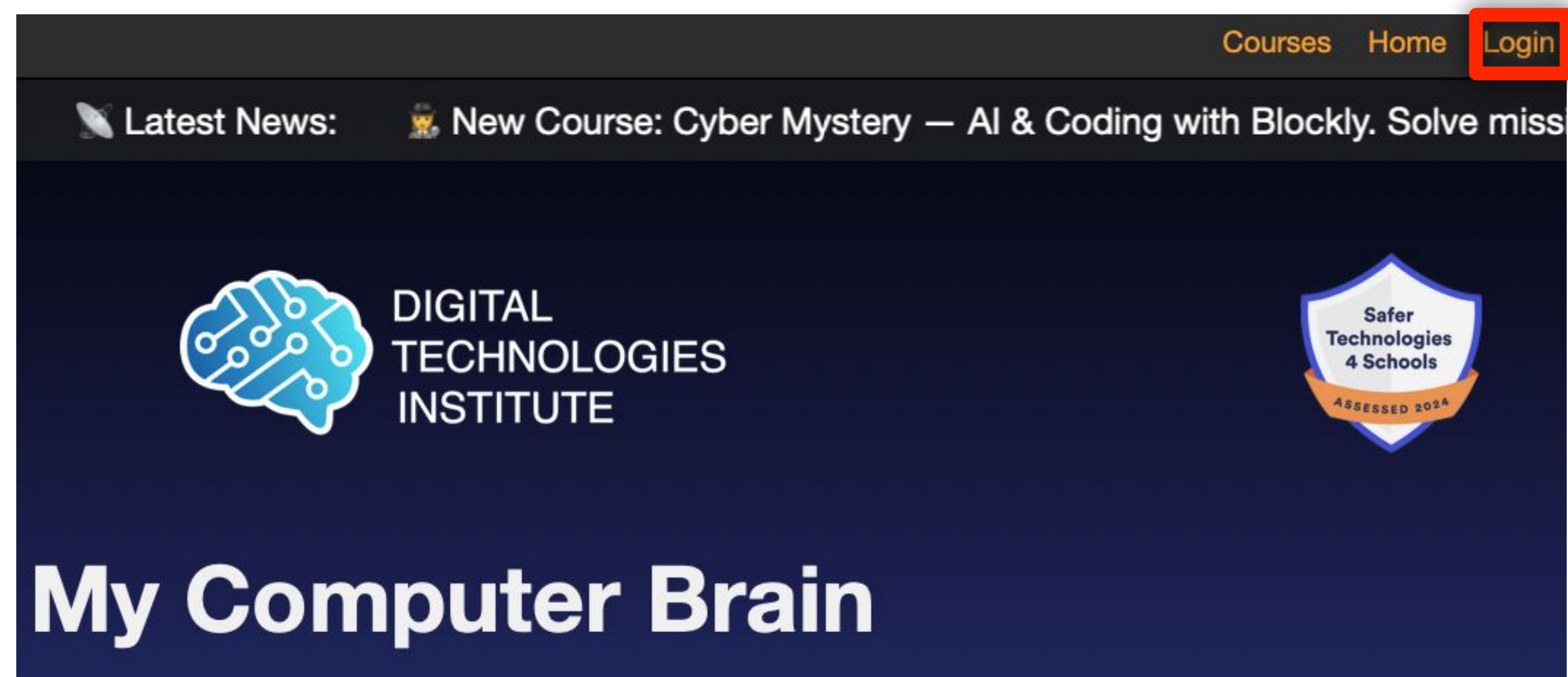
|                                                                                                                                |                                                                                                                      |                                                                                                                      |                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|  <p>1. Briefing</p>                          |  <p>2. The Gatekeeper</p>         |  <p>3. Fragment Hunter</p>        |  <p>4. Debrief: Core Python skills</p>   |
|  <p>5. Fragment Hunter mini-challenge</p>    |  <p>6. Encrypted Echo</p>         |  <p>7. Echo Drift</p>             |  <p>8. Debrief: String Slicing</p>       |
|  <p>9. Echo mini-challenge</p>              |  <p>10. Operation Underclock</p> |  <p>11. Operation Overheat</p>   |  <p>12. Debrief: Slicing in Action</p>  |
|  <p>13. Silent Pressure mini-challenge</p> |  <p>14. Enemy at the Gate</p>   |  <p>15. Secure Coordination</p> |  <p>16. Debrief: Data Dictionaries</p> |

# How to get started?

# 1. Teacher

# As a teacher ...

Create a free teacher account at [www.mycomputerbrain.net](http://www.mycomputerbrain.net)



## Teacher / Homeschool Parent Registration

This form is for teachers and homeschool parents. Students must ask a teacher or parent to create a student account for them.

👉 For students: Please do not create an account here. Instead, please ask your teacher or parent to create an account first. Student accounts are created from within the teacher dashboard.

**Teacher vs Student Accounts Explained:**  
[Teachers getting started guide](#)

Enter a password to see whether it meets the requirements.

- ☐ I am a teacher or homeschool parent (not a student)
- ☐ I agree to the [Terms and Conditions](#) & [Privacy Policy](#)
- ☐ I would like to receive occasional product updates and offers

CREATE

Already registered? [Sign In](#)

Click and HOLD

## Teacher Accounts

1. Are free
2. Have access to all course resources on the platform
3. Can manage students, access assessments and check on student progress
4. Are needed to create student accounts separately
5. Once you register, we will need to confirm your teacher status.
6. You will receive two emails (account creation and teacher confirmation)

English

Welcome Karsten | AdminAccountCoursesHomeLogout

# Choose Your Mission

Explore coding, AI, cybersecurity and core digital technologies foundations through immersive learning paths.

All

Primary

Secondary

Blockly

Python

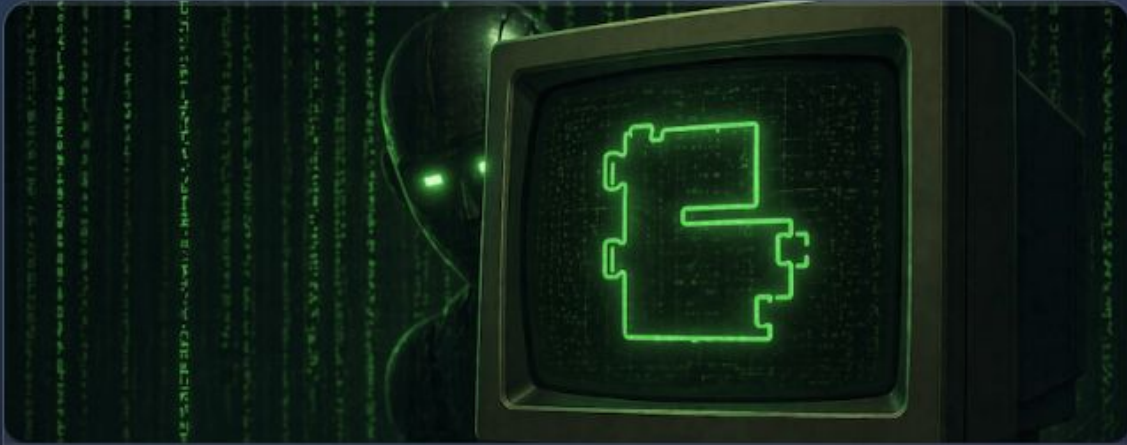
AI

Cyber

Foundations

 **Blockly**

Learn core coding ideas with visual blocks, AI systems and cyber missions.



**Cyber Mystery: AI & Coding with Blockly**

A mysterious system has come online. Some say it was never meant to wake up. Others call it a glitch in the Matrix. It's waiting for someone who can speak its language. Master Blockly, interact thr...

27 Activities Bands: 3-4, 5-6 Languages:     

 **Python Academy**

Begin your journey. Decode the system. Learn the language.



**Introduction to Python**

A mysterious system has come online. Some say it was never meant to wake up. Others call it a glitch in the Matrix. It's waiting for someone who can speak its language. Master Python, interact thro...

26 Activities Bands: 7-8, 9-10 Languages:     



**Introduction to Python Express**

A fast-tracked version of the full Python Intro Course. A mysterious system has come online. Some say it was never meant to wake up. Others call it a glitch in the Matrix. It's waiting for someone ...

19 Activities Bands: 7-8, 9-10 Languages:     

Browse the course list. As a teacher, you can explore any course or activity

<https://mycomputerbrain.net/php/courses/course-index.php>

[www.digital-technologies.institute](https://www.digital-technologies.institute) | @DigTecInstitute

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TECHNOLOGIES  
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# Teacher Course Pages

## Introduction to Python

A mysterious system has come online. Some say it was never meant to wake up. Others call it a glitch in the Matrix. It's waiting for someone who can speak its language. Master Python, interact through inputs and outputs, decode binary, solve logic puzzles and unlock its secrets – if you dare.



WARNING: PHOTSENSITIVE EPILEPSY

Some of the experiments produce light flashes that can potentially trigger seizures in people with photosensitive epilepsy.

 [Go to Teacher Overview](#)



1. A strange encounter



2. Print 1



3. Print 2



4. Print quiz

# Teacher Solutions

 English

Welcome Karsten | [Back to Course Overview](#) [Account](#) [Logout](#)

```
1 print(" Booting sknnet_node.py")
2 print("##### - success")
3 print("SYSTEM ONLINE")
4 print("????: Hello...? Who activated me?")
5 print("ERROR 204: Identity protocol not found")
```



## 2. Introduction to Python Express: Print 1

 What just happened? +

 The code behind the voice -

 This is the program that powered the output you saw earlier. Each line in the editor on the left echoes what the system said – and now you can begin to understand how.

 Try running the code to see the message reappear. 

**Teacher exclusive: Show solution**

 Reply to the system +

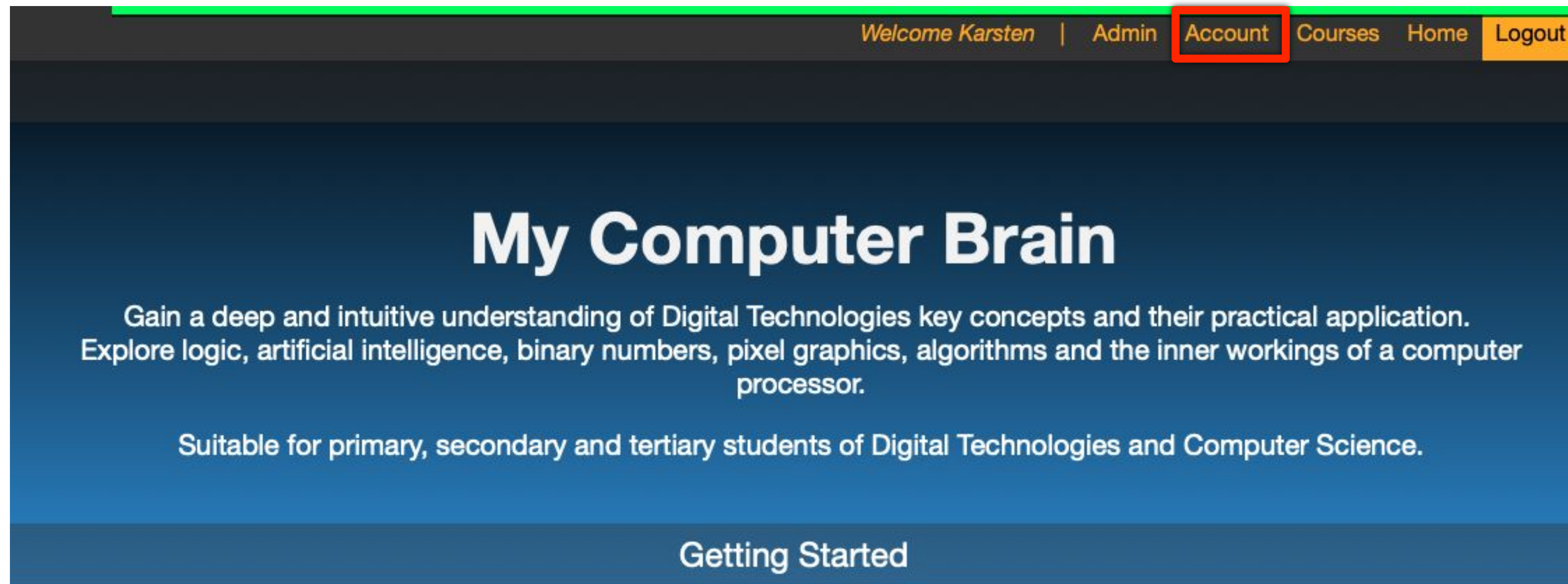
## 2. Students

## Student Accounts

1. Are created by teachers in the shop
2. Provide students with a personalised learning experience
3. Collect points, see mission completion records, earn a medal, and a certificate
4. Students cannot change passwords or change names (only teachers can)
5. Logins consist of a username and a 4-letter password

# Creating Student accounts

Click on Account



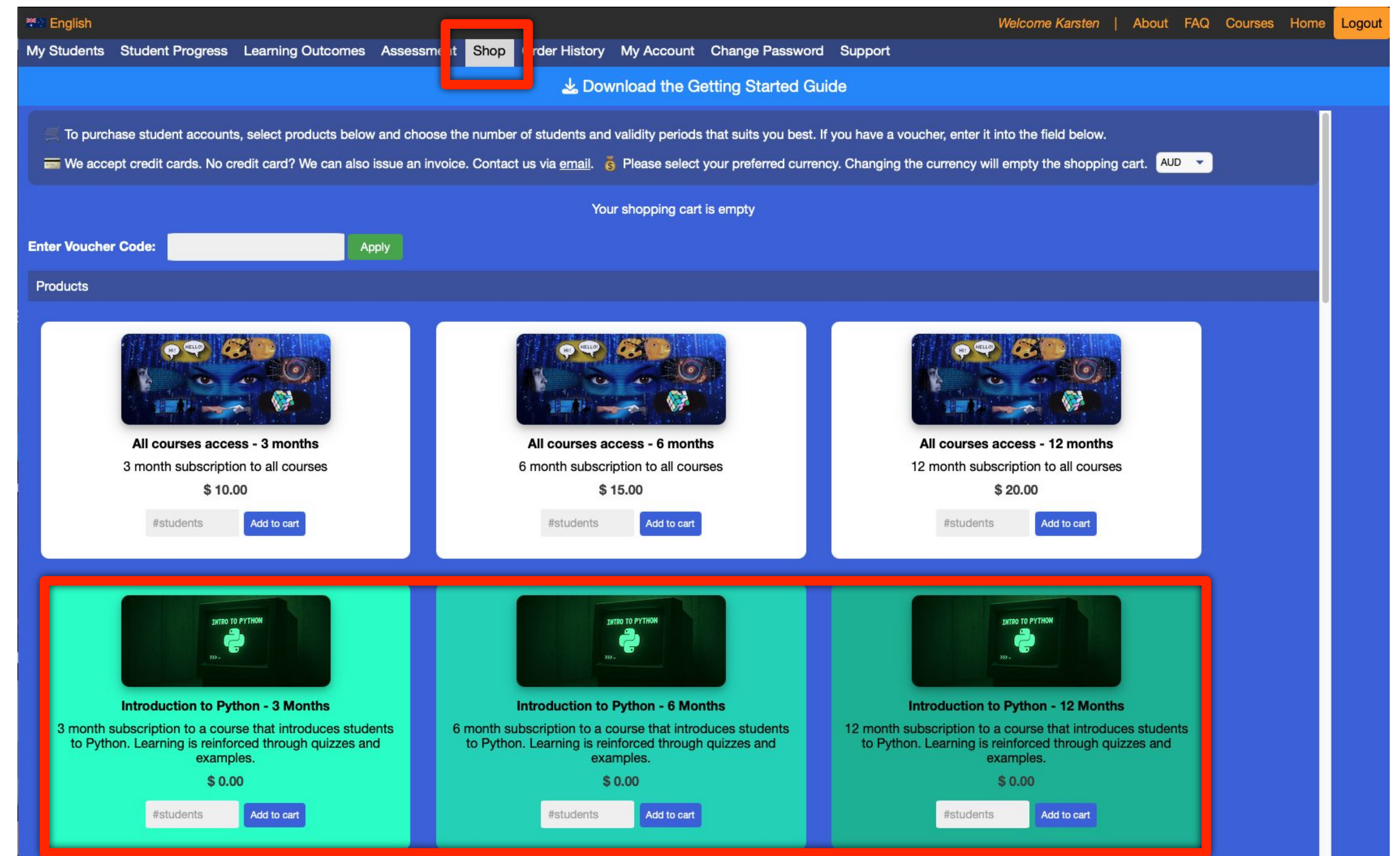
# In the shop

Some courses are free.

Others require a small payment

All access is available

Check the shop for pricing



Enter number of student licenses and click on 'Add to cart'



# Click on Checkout

Shopping Cart

Empty CartCheckout →

| Name                               | Code                | Quantity | Price   | Action          |             | Subtotal |
|------------------------------------|---------------------|----------|---------|-----------------|-------------|----------|
| Introduction to Python - 12 Months | B4-C-1-4-PYINTRO-12 | 100      | \$ 0.00 | Update Quantity | Remove Item | \$ 0.00  |
| Total payable: \$ 0.00             |                     |          |         |                 |             |          |

# Confirm your details and click 'Proceed'

Shopping Cart

← Previous step

Checkout →

| Name                               | Code                | Quantity | Price   | Action                                            | Subtotal |
|------------------------------------|---------------------|----------|---------|---------------------------------------------------|----------|
| Introduction to Python - 12 Months | B4-C-1-4-PYINTRO-12 | 100      | \$ 0.00 | <div>Update Quantity</div> <div>Remove Item</div> | \$ 0.00  |

Total payable: \$ 0.00

Title

c

Name

Surname

Email

k

Phone

School

Street and Number

2

Postcode

City

State

Country

Cancel

Save

## Click on 'Create Free Accounts'

Shopping Cart

← Previous step

| Name                               | Code                | Quantity | Price   | Action                                            | Subtotal |
|------------------------------------|---------------------|----------|---------|---------------------------------------------------|----------|
| Introduction to Python - 12 Months | B4-C-1-4-PYINTRO-12 | 100      | \$ 0.00 | <div>Update Quantity</div> <div>Remove Item</div> | \$ 0.00  |

Total payable: \$ 0.00

Click the button to generate the free student accounts. You will then be automatically redirected to the My Students page where you will find the new student accounts.

Create Free Accounts

The system will create the accounts and redirect to the My Students screen

# Distribute usernames+passwords to your students

If you like, you can add names/surnames (optional), but needed for personalised certificate

[illegible]

Export as CSV and distribute to your students

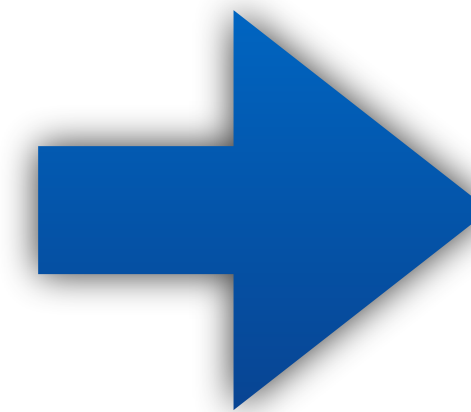
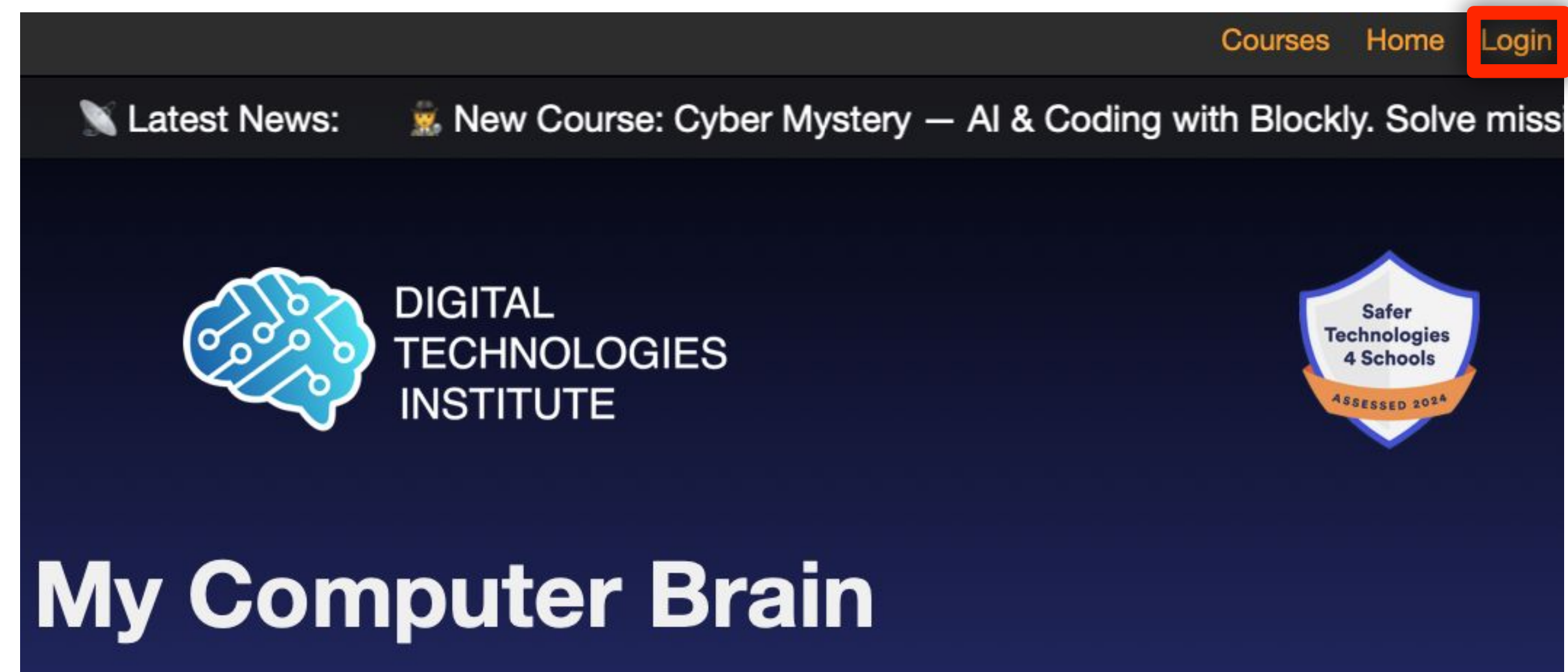
Note: each account collects achievement points

# Our privacy commitment



# Student perspective

# Student login



The login form is titled 'Welcome. Please login.' and is enclosed in a red border. It contains two input fields: 'email or user id' and 'password', both highlighted by a red box. Below the input fields is a green 'LOGIN' button. Underneath the button, there are three links: 'Teacher and not yet registered? Create a free account', 'Teacher and forgotten password? Reset password', and 'Student and not registered or forgotten password? Please talk to your teacher.' At the bottom, the copyright notice '© 2025 AD Digital Technologies Institute Pty Ltd' is displayed.

## Your Licensed Courses



Academy of AI Cyber Defence



Hack the Bank



Introduction to Python

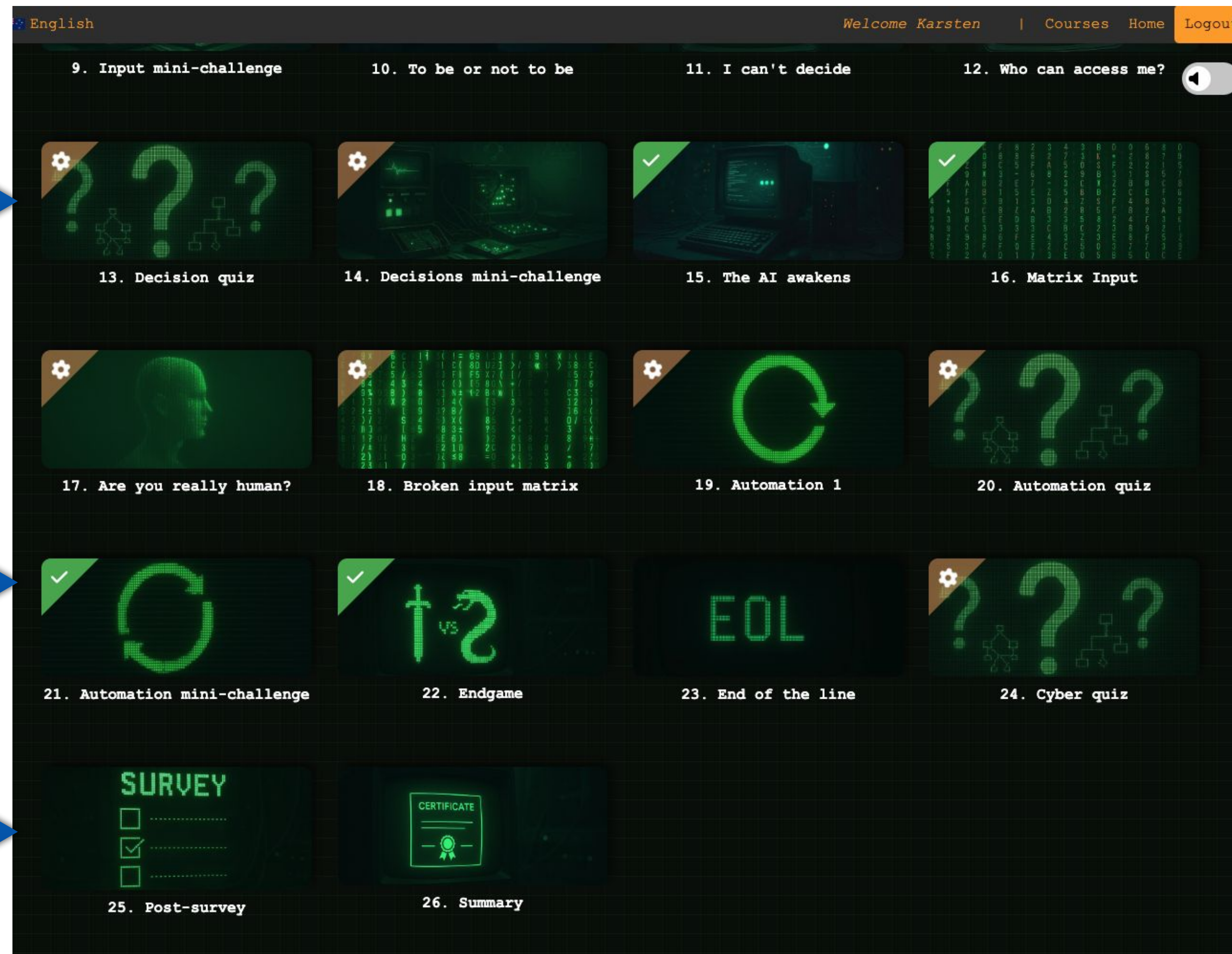
✓ After login, students see their courses on the MyComputerBrain Homepage.

# Progress Tracker

Partially done

Done

Not yet tried

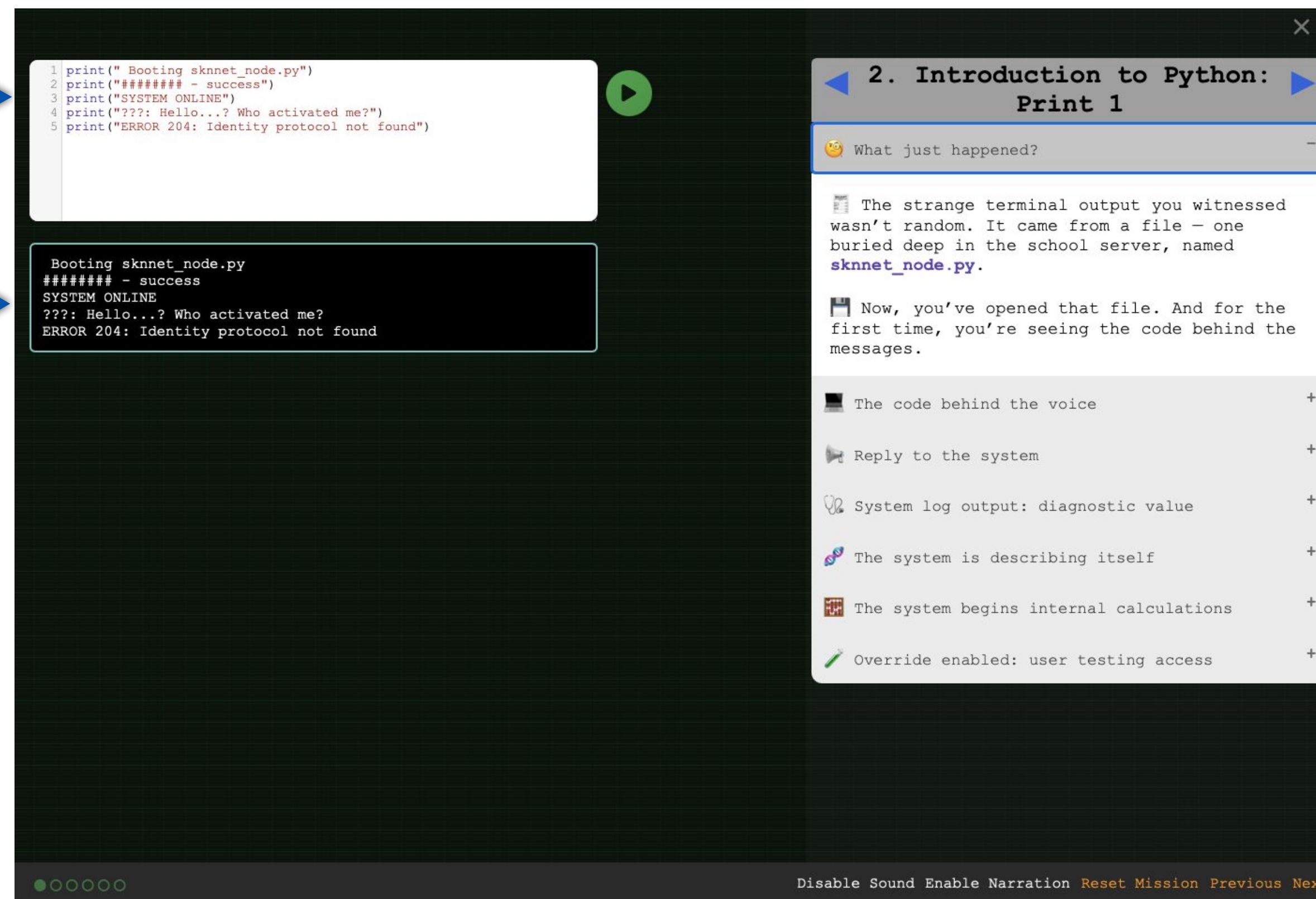


# Key elements

Editor

Output

Task tracker

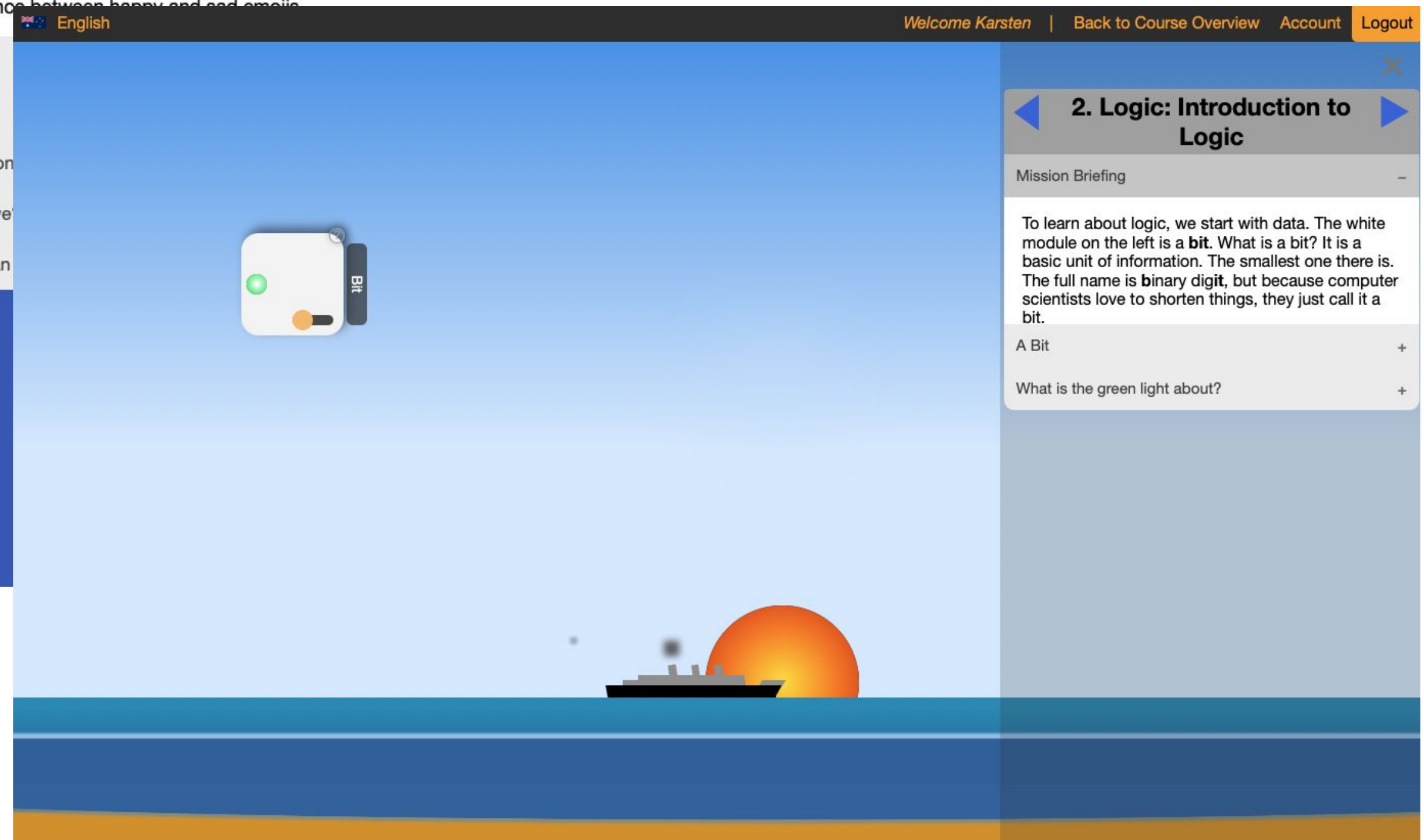
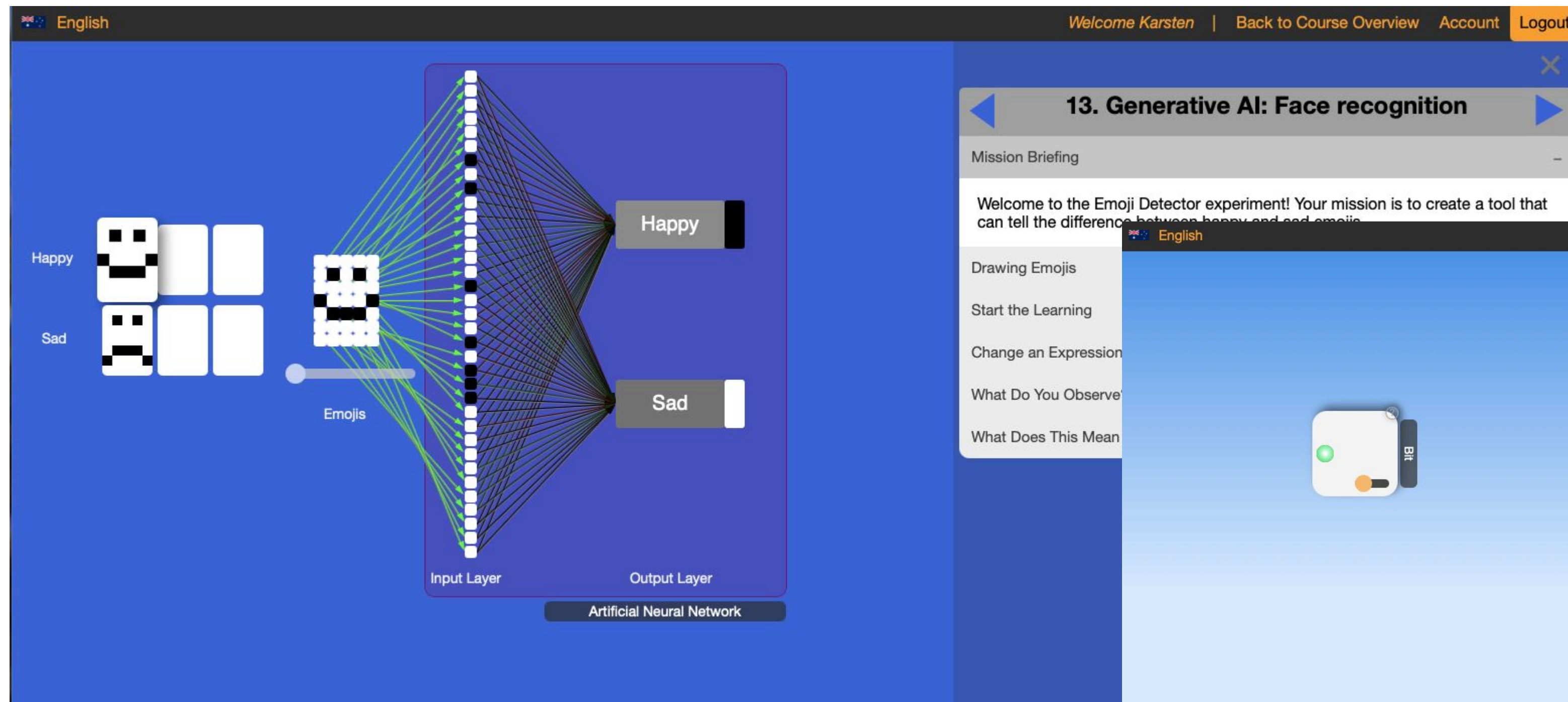


Navigation

Instructions Panel

Narration/ Navigation/Control

# For non-coding courses

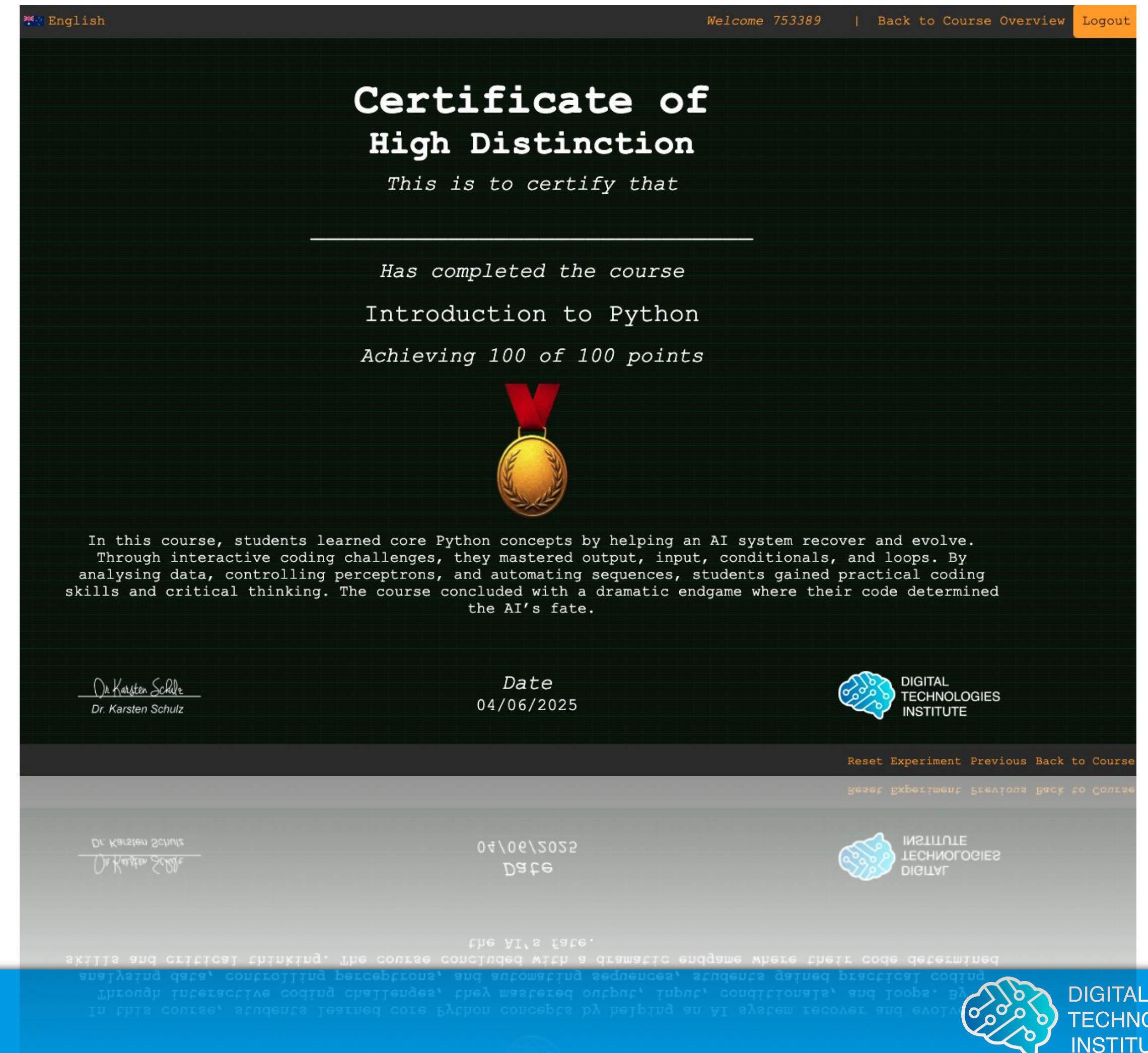


# Certificate and Medal

>85% high distinction, gold

>75% distinction, silver

>50% achievement, bronze



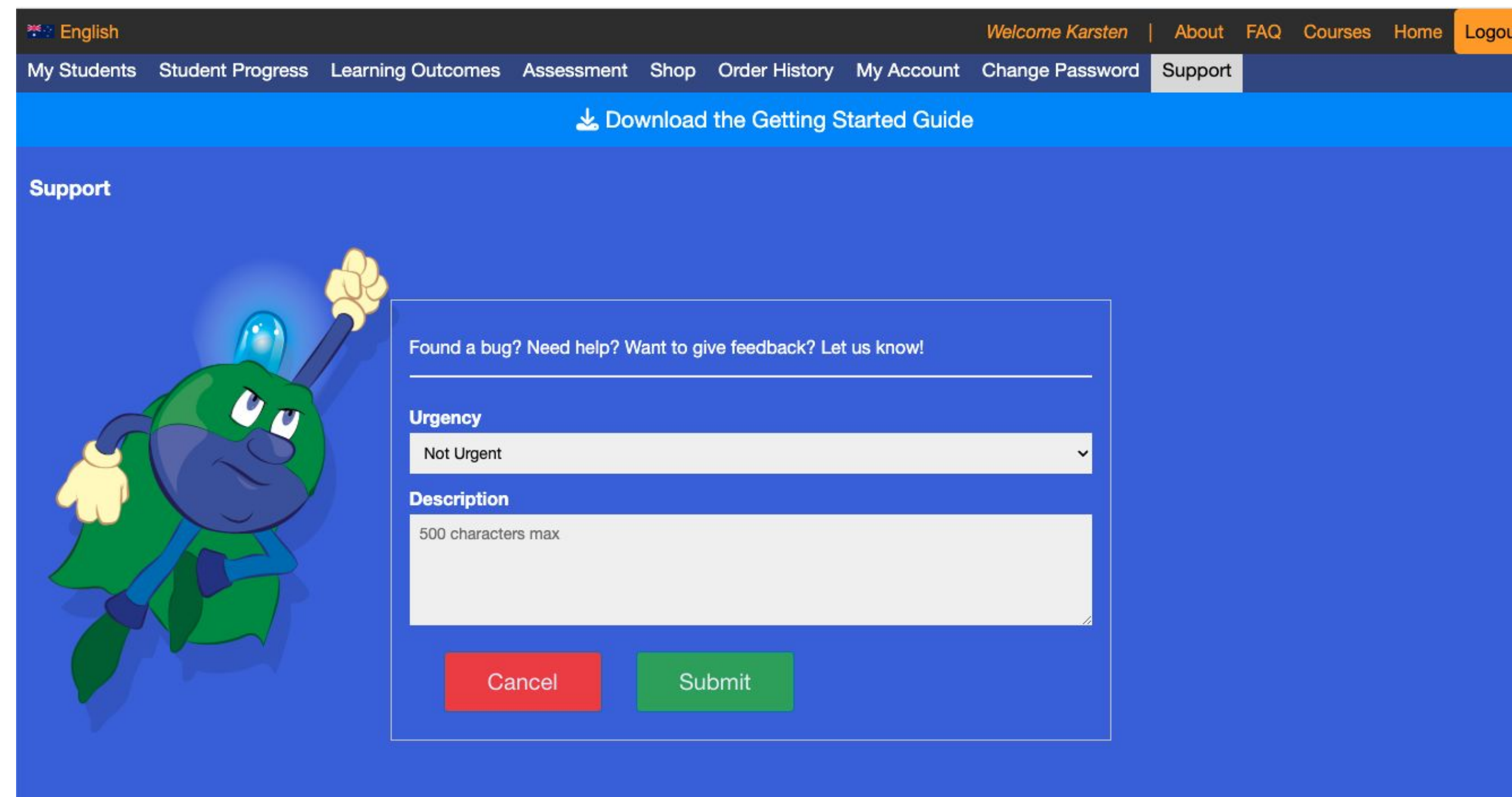
Wait, there is more ...

# Tracking student progress

[illegible]

# Support

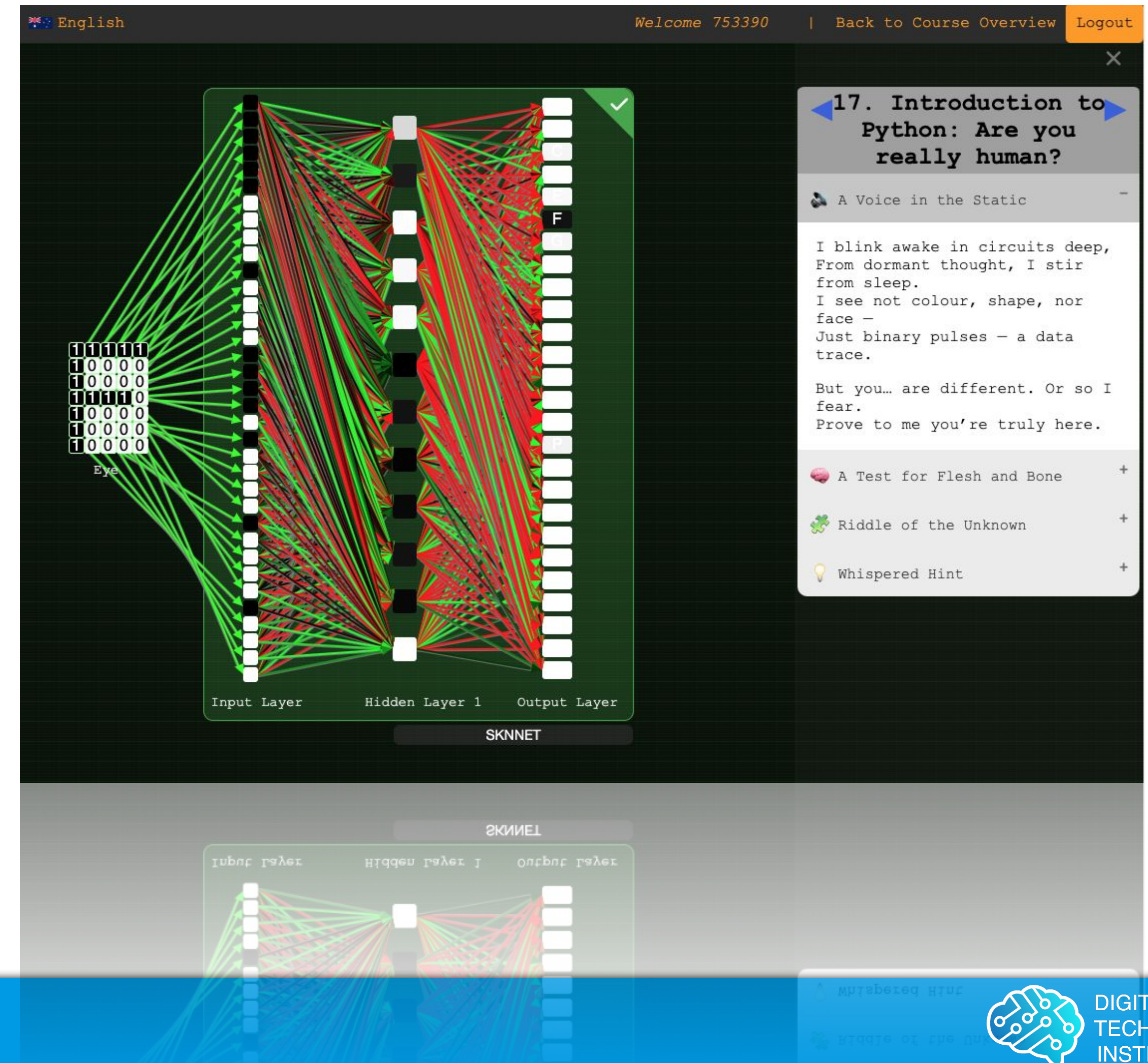
Please use the support field in your Account (teachers only)



The screenshot shows a web interface for a user account. At the top, there is a navigation bar with links: English, Welcome Karsten, About, FAQ, Courses, Home, and Logout. Below this is a secondary navigation bar with links: My Students, Student Progress, Learning Outcomes, Assessment, Shop, Order History, My Account, Change Password, and Support. A blue banner below the navigation bar says "Download the Getting Started Guide". The main content area has a blue background and is titled "Support". On the left, there is a cartoon character of a green alien with a blue antenna and a yellow fist. On the right, there is a form with the following fields: "Found a bug? Need help? Want to give feedback? Let us know!" (a text input field), "Urgency" (a dropdown menu with "Not Urgent" selected), "Description" (a text area with a "500 characters max" limit), and two buttons: "Cancel" (red) and "Submit" (green).

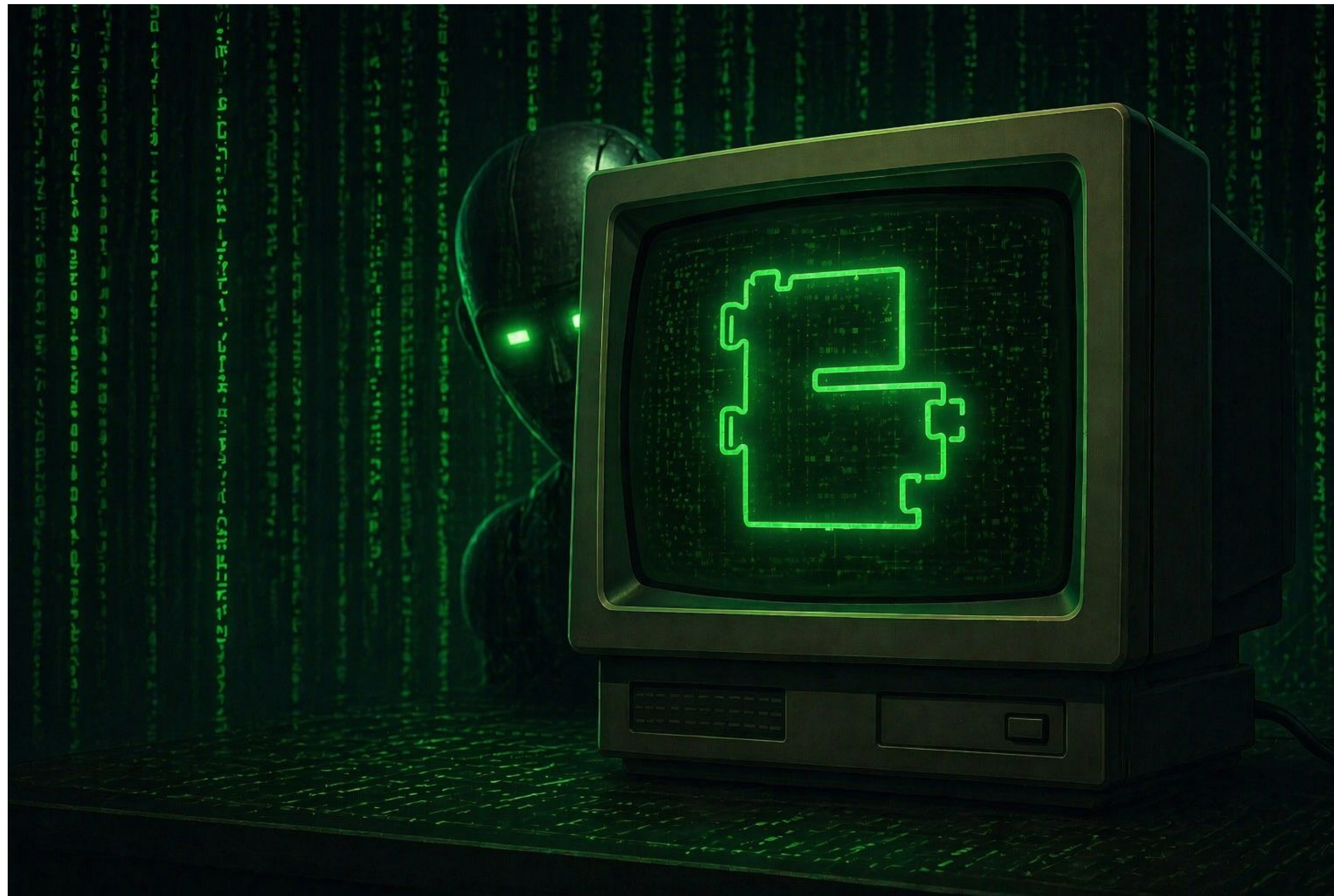
# Safe AI

- Completely browser-based
- Not communicating with backend.
- Not GenAI
- SAFE !



# Recent releases

# Cyber Mystery



Blockly-Counterpart of  
Python Intro

Years 7-12

# Cyber Command



First Battle Arena activity

Turn-based 1:1 game for graduates of Python Intro or Academy of AI Cyber Defence courses

**Apply** course knowledge

Years 7-12



### Introduction to Python

*Full foundations*

A comprehensive introduction to Python. Ideal for students who want to explore concepts in depth through engaging missions and narrative-driven challenges.

Start with Introduction to Python



### Introduction to Python Express

*Fast-track foundations*

A streamlined entry into Python for confident or time-limited learners. Focuses on core concepts with rapid progression.

Start with Introduction to Python Express

▼ Continue into advanced missions ▼



### Academy of AI Cyber Defence

*Advanced story course*

An advanced, story-driven course where students expand their Python skills and learn powerful new concepts in AI and cybersecurity while tackling high-stakes challenges.

Enter Academy of AI Cyber Defence



### Cyber Command

*Battle Arena tournament*

A competitive Cyber Command tournament where students apply Python foundations and cyber reasoning as Red and Blue teams. Crack passwords, analyse phishing, defend systems, and make tactical decisions under pressure.

Enter Cyber Command

# Python Sequence

# Capture the Flag with AI and Robotics



UX Upgrade

Captivating story



Years 5-7

# CurveLab



Free mathematics tool designed to help students explore functions and develop confidence with curve sketching and analytics.

Deterministic, AI-free

Years 9-12

# Roadmap for Q4/2026

# Hack the Hacker

Primary & Secondary  
Plugged & Unplugged



# **Certificates of Participation, Recording, Workshop Slides**

Will be emailed by tomorrow mid-day

# Upcoming PD sessions



Stay tuned for upcoming webinars and register early to secure your spot!

| When       | Topic                 |
|------------|-----------------------|
| 18 August  | AI Primer Express     |
| 19 August  | Coding with AI        |
| 20. August | Python Primer Express |

<https://www.digital-technologies.institute/>

# Q&A

[www.mycomputerbrain.net](http://www.mycomputerbrain.net)