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ARTIFICIAL INTELLIGENCE

STEM INCURSIONS

ALIGNED TO THE DIGITAL TECHNOLOGY SYLLABUS

STAGES 2-6

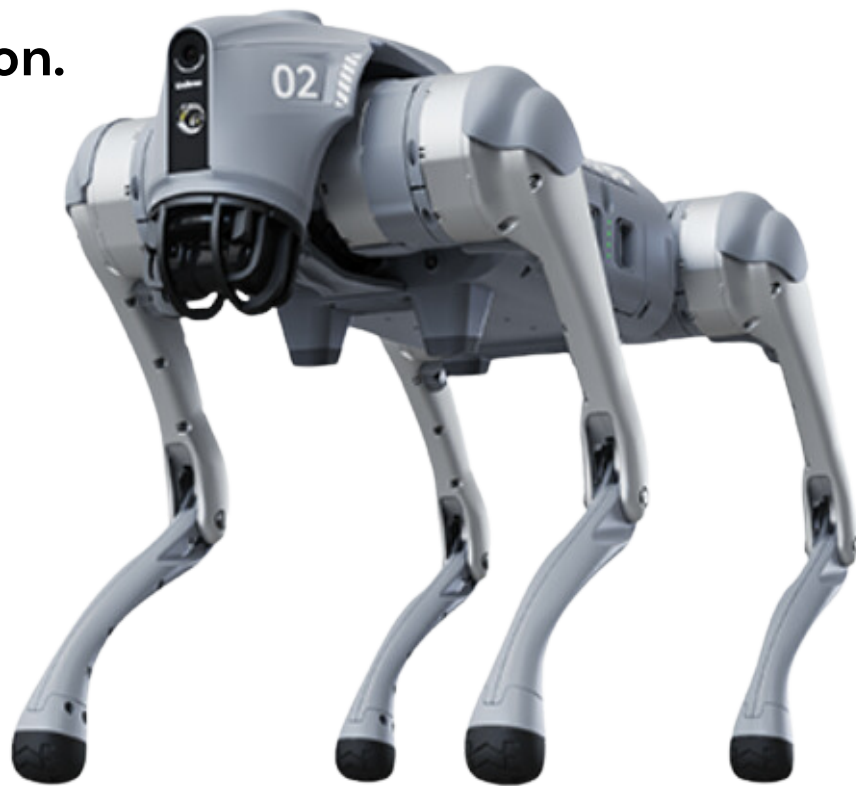
Spark student interest in
the most important
technology of a generation.

Students learn about A.I.
via a series of live interactive
implementations of the tech
including computer vision,
autonomous cars & robotics.

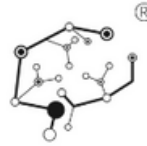
Join Barker College, Macarthur
Anglican, Liverpool Girls High,
Campbelltown Public & many
more in bringing A.I. education
to your students.

E- adrian.tyson@neuranext.ai

P- 0466 568 769



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Exclusively delivered by NSW Teacher
Adrian Tyson

Fully Insured & Risk Assessed

Artificial Intelligence Education Incursion Outline

- Students begin with a discussion about A.I. covering their current knowledge and usage. Topics include the current state of the art in A.I. and the computing breakthroughs that are driving A.I.
- Students learn about the key scientific concepts of computer vision and how A.I. labels unstructured data.
- Students experience live computer vision applications like object detection, human pose estimation and face detection in the room, applying the concepts learnt in real time on the students themselves.
- Utilising remote control cars, we ask some students to drive a large driving track using the traditional tool, the human brain, which takes significant concentration. We then apply computer vision to the driving task with autonomous cars. We explore the mistakes and errors of these cars and engage students with what is happening with the data to produce and cure these errors.
- Students then interact with multiple cutting edge A.I. powered quadruped robotics, we explore how A.I. enables these robots to complete useful tasks and ask students to think creatively about use cases for these new tools in industry and regular settings.
- Switching gears we move to exploring the worlds of generative A.I. where students explore the worlds of text, image, music, voice, code and video generation. Critical thinking about these new modes of creating media are discussed and activities around discerning real from A.I. generated media are undertaken.
- Extension activities include using generative tools to create imagery, songs, video and text.

Options:

60 minute sessions per class @ \$390 per session*

or 90 minute session per class @\$585 per session*

***min 2 sessions per day, max of 5 per day for 60 minute sessions, 3 for 90 minute sessions**

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