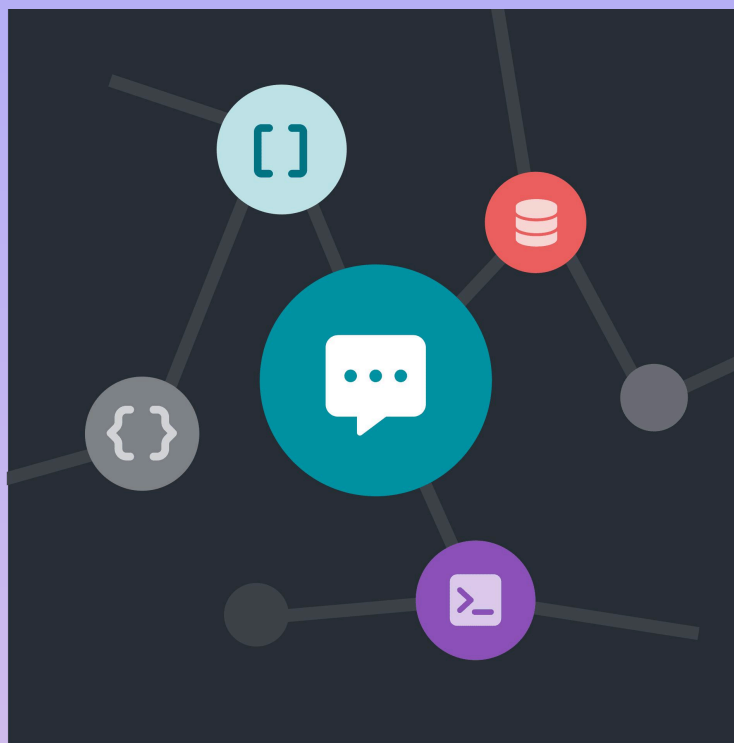


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Empowers student to become confident, ethical coder



Language agnostic

Tailored for universal relevance, this unit goes beyond specific programming languages, focusing on foundational AI and coding principles and challenges.



Flexible course structure

Beyond the introductory lesson, this unit is designed to be flexible. You can teach each lesson on its own or in the order that suits your classroom learning goals.





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Lesson 1: Introduction to AI Languages

How can AI support code development and what ethical considerations should be addressed when using AI in coding?

In this lesson, students embark on an exploration of AI's role in programming. They discuss their experiences with AI tools, explore scenarios of AI-learner collaboration, delve into ethical considerations, and begin to form their opinions on how AI can support or hinder their coding journey. Finally, students create initial Value Statements about AI usage which will evolve as they explore various supportive AI strategies. The lesson also includes optional hands-on pseudocode practice which will prepare students for AI-assisted coding strategies in the subsequent lessons. There are many other AI languages such as:

- 1) Python
- 2) R
- 3) Java
- 4) C++
- 5) Rust
- 6) Go

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1) Python:



widely used for machine learning, natural language processing and deep learning due to its extensive libraries

2) R:



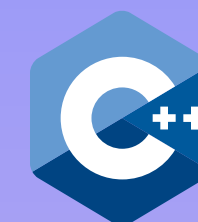
Great for statistical analysis and data visualization, often used in data science

3) Java:



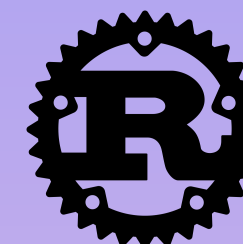
known for its robustness and scalability, used in large scale learning application.

4) C++:



often used for its performance in resource-intensive tasks and used for performance critical tasks

5) Rust:



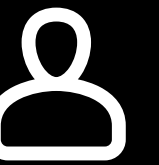
Valued for its safety and performance in system programming.

6) GO:



Gaining popularity for concurrent system and performance.



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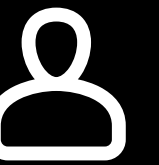
QUIZ Question

- 1) which of the following AI language specifically designed for statical computing and graphics?
A) Python C)Java
B) R D)C++
- 2) which AI language is known for its simplicity and readability ,making it popular for AI and machine learning projects?
A) C C)Lisp
B) Python D)JavaScript
- 3) What is TensorFlow primarily used for?
A)Web development C)Database management
B)Creating AI models D)Graphics design

Challenges

- 1) Write a python script that uses a simple machine learning algorithm to predict the prices of houses based on a dataset. explain each steps of your code and how the algorithm works.
- 2) Design a basic algorithm using R for clustering a set of data points into different groups. provide a detailed explanation of the clustering technique you chose and how it works



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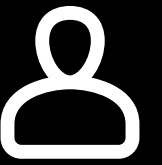
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