**AI Python for Beginners: Basics of AI Python Coding**

Lesson 1: What is Computer Programming?

Computer programming is the art and science of writing precise instructions to tell a computer of what you want it to do for you.

Programming helps the advancement of humanity. It is a set of instructions to perform a task.

Programming gives you an edge:

* Automate repetitive tasks
* Analyze lots of data
* Build, improve and use AI models

Programming + AI = superpowers

Programming will let you unleash the true power of current AI tools.

Python is currently the most popular programming language.

* Supportive community
* Chatbots like ChatGPT are reliable

Python is everywhere in AI

* Self-driving cars, chatbots, smart agriculture

Lesson 2: Writing code with chatbots

Have a chatbot write code for you!

Prompt: What is Python?

Response completion: Python is an easy-to-read and write programming language that's great for beginners. It's used for building applications, solving problems, and working with data. Python is known for its readability and simplicity, making it a popular choice for learning programming.

Prompt: How to write a “Hello, World!” program in Python?

Response: print(“Hello, World!”)

Lesson 3: How to navigate the learning platform

Middle is the coding environment (Jupyter notebook)

Left navigation bar

Lesson 4: Running Your First Program

See Jupyter Notebook

Lesson 5: How to succeed in coding

Use the chatbot

Feel free to go at your own pace.

Lesson 6: Data in Python

See Jupyter Notebook

Lesson 7: Combining Text and Calculations

See Jupyter Notebook

How Python carries out the print() statement

1. Tell Python to display to screen
2. Checks for opening and closing parentheses
3. Sees a quotation mark, checks for match to close
4. Python displays everything between the quotes to the screen exactly as written

How Python interprets f-strings

1. Tell Python to display to screen
2. Checks for opening and closing parentheses
3. Sees the f character – knows this is a formatted string/
4. Checks for opening and closing quotation marks

Lesson 8: Variables

See Jupyter Notebook

Lesson 9: Building LLM Prompts with Variables

See Jupyter Notebook

Lesson 10: Function

See Jupyter Notebook