How much Python you need?

Basics of Python

- **Syntax and Basics**: Understanding Python syntax, variables, data types, and basic operations.
- **Control Structures**: Knowledge of if-else statements, loops (for and while), and handling exceptions with try-except blocks.
- **Functions**: How to define and use functions, understanding parameters, return values, and basic principles of functional programming.

Intermediate Python

- **Data Structures**: Proficiency with lists, dictionaries, sets, and tuples for organising data.
- **Object-Oriented Programming (OOP)**: Understanding classes, objects, inheritance, and polymorphism to structure your code more efficiently.
- **Modules and Packages**: Knowing how to import and use external libraries and modules, which is crucial for leveraging Python's extensive ecosystem.

Python Libraries for AI and Data Science

- **NumPy and Pandas**: For handling numerical and tabular data, respectively. These are foundational for data manipulation in AI projects.

Working with LLMs

- **API Requests**: Understanding how to make HTTP requests in Python since interacting with LLMs like OpenAI's GPT-3 often involves sending requests to an API.
- **JSON**: Knowing how to work with JSON data is essential for parsing the responses received from APIs.

Building UIs with Gradio

- **Gradio Basics**: Learning how to use Gradio to create simple interfaces for your AI models. This includes understanding how to define inputs and outputs and configuring the interface elements.
- **Integrating AI Models**: Ability to integrate your AI models or third-party models with Gradio interfaces.

Project and Environment Management

- **Version Control**: Basic understanding of version control with Git is beneficial for managing your code and collaborating with others.
- **Virtual Environments**: Knowledge of creating and managing isolated Python environments with virtualenv or conda is helpful for managing dependencies.

Debugging and Testing

- **Debugging**: Skills to identify and fix issues in your code.
- **Testing**: Understanding of basic testing principles to ensure your code works as expected.