Tools for Python
IDEs & Notebooks
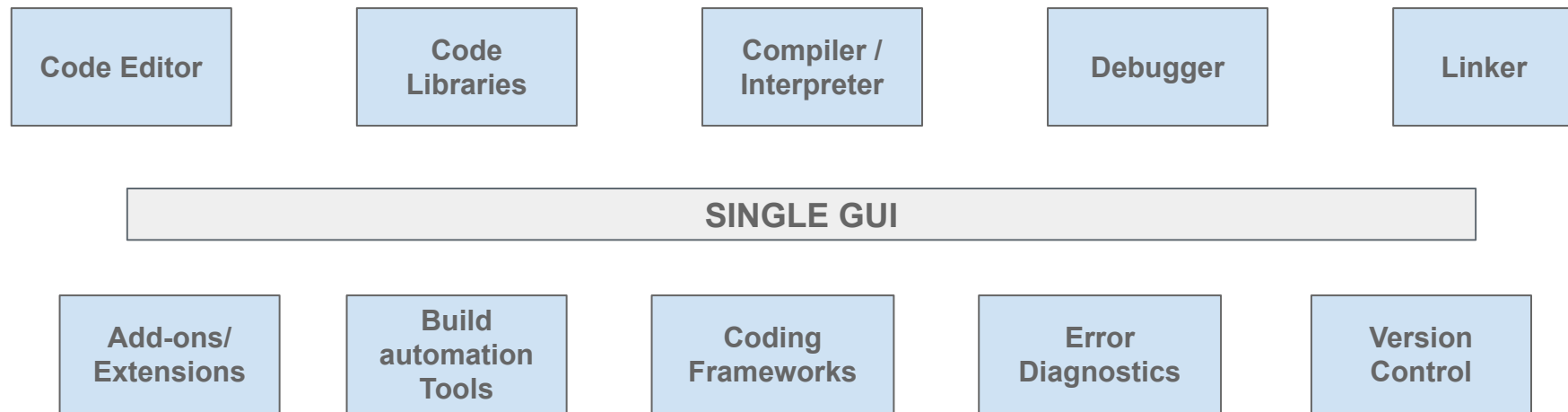
Nabanita Roy

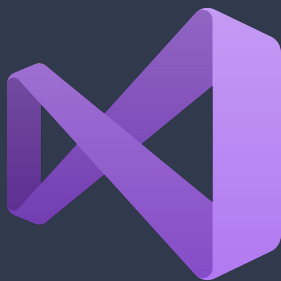# Python for Artificial Intelligence

Simple . Open Source . Versatile . Community

Integrated Development Environment

An integrated development environment (IDE) is a software suite that consolidates basic tools required to develop and test software.

| Code Editor | Code Libraries | Compiler / Interpreter | Debugger | Linker |

SINGLE GUI

| Add-ons/ Extensions | Build automation Tools | Coding Frameworks | Error Diagnostics | Version Control |

Notebooks

Web application for creating and sharing computational documents

- In-line code executions and visualizations
- Documentation using markdown editor
- Easy export as pdf, html or even .py file

- Open-source
- Set-up required from scratch
- Supports over 40 programming languages, including Python, R, Julia, and Scala

- On cloud & requires internet connection
- Easily stored and shared on Drive
- GPU & TPU accessibility free of charge
- Minimal configuration required
- Python only

Demo

- Working with Google Colab
- Installing dependencies
- Working with Google Drive
- Using GPU or TPU
- Interactive Forms
- Execution history and scratch codes
- Readily available Code Snippets
- Working with GitHub

References

- https://www.techrepublic.com/article/jupyter-notebook-vs-pycharm
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- https://www.datacamp.com/tutorial/top-python-ides-for-2019
- https://insights.stackoverflow.com/survey/2021
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- https://github.com/women-in-ai-ireland/WaiTUTORIALS

Thank You!

Any questions?