Introduction to Student HPC Platform (SHPC)

- The platform has a web interface. You can use tools like AI-Powered VS Code, MATLAB, and Jupyter Notebook right in your browser for programming and calculations.

- You can tap into powerful CPUs and GPUs for things like creating visuals and running simulations.

- It also provides efficient file management through a web interface for easy uploading and downloading.

- It's free for all PolyU students and is designed to be easy and familiar to use.

Services Provided by the Student HPC Platform (SHPC)

- **AI-Powered VS Code**

  - With the AI-Powered plugin, VS Code becomes a helper for coding. It utilizes the AI model to enable developers to inquire about code, receive suggestions, write code, fix bugs, and create files directly within the editor.

- **MatLAB**

  - MATLAB is a powerful tool that acts like a supercharged calculator. It makes solving tricky math problems and creating simulations straightforward. With parallel computing in MATLAB, it's like having a team of calculators working together simultaneously, which speeds up tasks and makes them more effective.

- **Jupyter Notebook/Lab**

  - You can create documents with live code to do things like clean data, run simulations, build models, and explore machine learning, and more.

- **And more…**

References

- **Introduction of Student HPC Platform (SHPC)**
  https://www.polyu.edu.hk/its/researchsupport/en/hpc-platform/introduction/