



DATA DETECTIVES

FINDING SOLUTIONS TO EVERY PROBLEM!

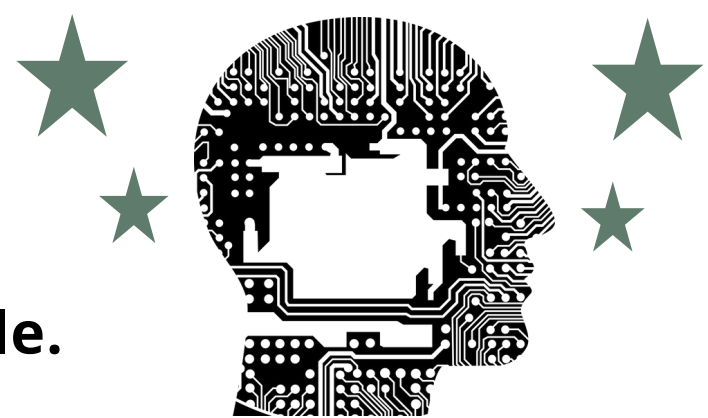
TARGET SCIENCE GATEWAY

Our Targeted Science Gateway is the HPC-ED Gateway (High-Performance Computing - Education) which is an innovative project dedicated to enhancing the accessibility and dissemination of educational materials related to high-performance computing (HPC). The primary goal of this project is to create and share comprehensive information for HPC educational resources, thereby facilitating easier discovery, access, and publication of these valuable materials.

★ MISSION



- The program is designed to gather, organize, and present HPC information in a way that enhances learning within the field. It collects content from various sources, ensuring a comprehensive range of materials. Once gathered, the program stores this information systematically, making it easily accessible and navigable. By presenting these materials clearly and concisely, the initiative aims to simplify complex HPC concepts and provide straightforward access to educational resources. This approach supports skill development and promotes effective use of computational techniques in both academic and professional settings, fostering a deeper understanding and practical application of HPC principles.



★ GOALS

- **Goal 1: Create flask database to digest information off websites**
- *Task 1: Make new project in Eureka/Jupyter*
- *Task 2: Develop flask app*
- *Task 3: Identify which websites to use*
- **Goal 2: Develop means to transfer information from sites to the app**
- *Task 1: Develop HTML file to connect to websites*
- *Task 2: Add validation to ensure data quality*
- *Task 3: Establish the form submission endpoint*
- **Goal 3: Transfer information from app to HPC-ED database**
- *Task 1: Ensure the data is easily user readable*
- *Task 2: Handle and store incoming form data*
- *Task 3: Transmit stored data to the HPC portal*

IDENTIFIED ISSUES

HPC-ED wants to create a database to ensure an easier learning environment for HPC

RESOURCES

- <https://slack.com>
- <https://hpc-ed.github.io>
- Grid Gain High Performance Computing

SUPPORTERS

- SGX3
- TACC
- SGCI
- Omnibond

TECHNOLOGIES USED

- GitHub
- Python
- Requests, BeautifulSoup, Pandas
- Jupyter Labs
- Visual Studios