Tech Set Up

For Jupyter, Kaggle, & More



Reminder: If you have paid dues, please message any admin on the ACM Discord your name and email to receive an official member role

University of Iowa February 25th - 26th Computing Conference



- John Laird
- Kristian Hammond
- Kelsey Huebner
- Casey DeRoo

Featuring

- Door Prizes
- Free Meals & Snacks
- Video & Board Games
- Social Events

Registration before February 22nd guarantees your spot in all activities and meals at the conference.

Individuals with disabilities are encouraged to attend all University of Iowa-sponsored events. If you are a person with a disability who requires a reasonable accommodation in order to participate in this program, please contact Mitchell Hermon In advance at (515) 822-5084







Join us in person or over Zoom!

For more information visit acm.org.uiowa.edu/uicc-2022



Getting Started With pip

- pip (preferred installer system) is a package management system for python
- To check if you already have pip, open terminal and execute:
 - python -m pip --version (MacOS) or py -m pip --version (Windows)
- For those that don't have it installed, copy & paste this script into a python file and title it "get-pip.py"
 - https://bootstrap.pypa.io/get-pip.py
- Move to the directory in your terminal to where this file exists and execute:
- https://colab.research.google.com/
 python get-pip.py (MacOS) or py get-pip.py (Windows)

For information visit: https://pip.pypa.io/en/stable/getting-started/

Getting Started With Jupyter Notebooks

To upgrade pip:

```
python -m pip install --upgrade pip (MacOS)
Or py -m pip install --upgrade pip (Windows)
```

- Using pip in the terminal, execute:
 - pip install notebook
- In the terminal, execute:
 jupyter notebook
- pip install --user ipykernel

For more information visit: https://jupyter.org/install

If you prefer to use Conda for installing Jupyter visit:

https://towardsdatascience.com/how-to-set-up-anaconda-and-jupyter-notebook-the-right-way-de3b7623ea4a

Getting Started With Kaggle

Create an account here:

https://www.kaggle.com

• We will be walking through the "Titanic" Kaggle exercise:

https://www.kaggle.com/c/titanic

Getting Started With A Virtual Environment

- Create the environment
 - o python -m venv <name_of_environment>
- Install Jupyter Notebooks in environment
 - python -m ipykernel install --user
 - --name=<name_of_environment>
- Start the environment
 - source <name_of_environment>/bin/activate
- Can also use Jupyter Notebooks VS Code Extension
- Close environment
 - deactivate

Getting Started With Pandas

- In your Jupyter file, you can run commands to install libraries
- Pandas is a commonly used library for data manipulation, visualization, and storage
- Install Pandas by running the following script in your Jupyter file:

pip install Pandas

