CIS 635 Knowledge Discovery & Data Mining

Development (Programming) environment

Outline

- Development environment: expectation on deliverables
- Python environment: short term and long term goals
- Google Colab vs Jupyter Notebook
- Demo (Google Colab setup & execution of sample code)

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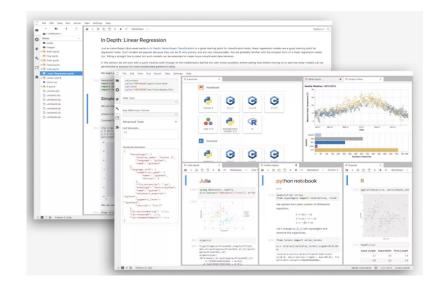
Options:

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- Docker environment
- Google colaboratory
 - Our initial choice
 - To check if I am able to access your notebook(s) on Google drive

 Google Colab(oratory) is a Python based Jupyter Notebook.



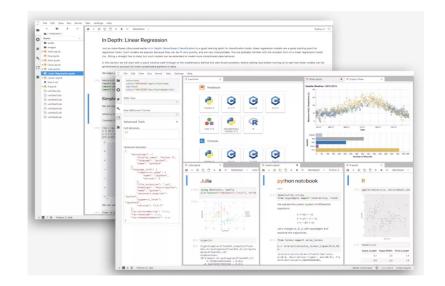




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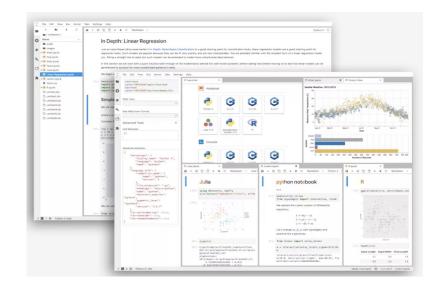




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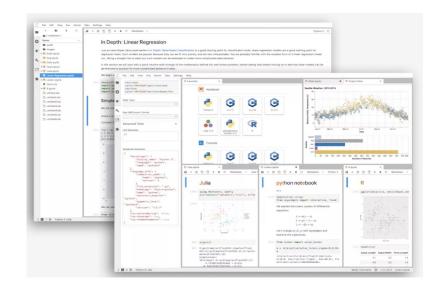




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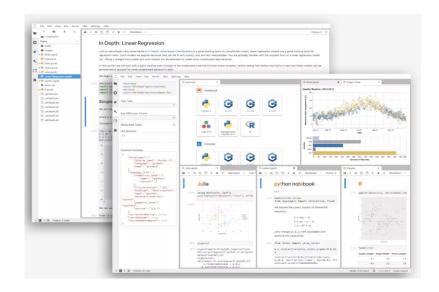






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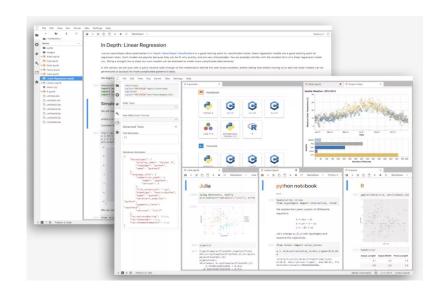




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- **IPython** is the predecessor and **Jupyterlab** (next generation Notebook interface) is the successor.







Google Colab Demo

- Setup & execution of sample code

Important resources

- https://colab.research.google.com/github/saigerutherford/introduction-to-python/blob/master/introduction-to-python.jpynb
- https://jupyter.org/
- https://medium.com/velotio-perspectives/the-ultimate-beginners-guide-to-jupyter-notebooks-6b https://medium.com/velotio-perspectives/the-ultimate-beginners-guide-to-jupyter-notebooks-6b https://medium.com/velotio-perspectives/the-ultimate-beginners-guide-to-jupyter-notebooks-6b
- https://colab.research.google.com/?utm_source=scs-index
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- https://learn.microsoft.com/en-us/training/modules/intro-to-python/