

# Data Science Intro and Notebooks

Data Science Intro and Notebooks, Course COMP 5355, Lecture #1

\* Required

Email address \*

geraldobraho@gmail.com

Why language is used for writing text (including tables) in Jupyter Notebooks (all that apply) \* 2 points

- ☒ Markdown and HTML
- ☐ Restructured Text (ReST)
- ☐ HTML
- ☐ YAML
- ☐ Javascript
- ☐ Other:

List 5 features of Jupyter Notebooks? (type your answer) \* 5 points

It is very flexible tool to create readable analyses, because one can keep code, images, comments, formula and plots together. You can plot the data and It will be very organized. Visuals .

What is the content of Jupyter Notebook file .IPYNB? \* 1 point

- ☐ Only code in JSON format
- ☒ Content of all cells and metadata in JSON format
- ☐ Code and text in HTML format
- ☐ Other:

What are the pre-requisites of machine learning? (all that apply) \* 4 points

- ☐ Fourier Transforms
- ☐ Optimization
- ☒ Statistics and probability
- ☒ Programming
- ☒ Linear algebra
- ☒ Differential Equations
- ☐ Other:

How many kernels can you have attached to the same notebook? \*

1 point

- ☐ 2
- ☐ 1
- ☐ 3
- ☒ Other: As many as we need.

What are the main applications of scikit-learn? (all that apply) \*

2 points

- ☐ Generative adversarial networks
- ☒ Regression and classification
- ☒ Visualization methods
- ☒ Clustering and dimensionality reduction
- ☐ Recurrent neural networks
- ☐ Other:

What are the major differences of running Jupyter and IPython on local machine from running in Azure Notebooks? (all that apply) \*

2 points

- ☒ No installation required
- ☐ The arrays in the notebook are saved in the cloud
- ☐ There is no Jupyter server in Azure Notebooks
- ☐ Some Jupyter components run in the cloud
- ☐ Other:

Which package is NOT generally used for data science? \*

1 point

- ☐ Pandas
- ☐ Scikit-learn
- ☐ Scipy
- ☐ Numpy
- ☒ Sympy
- ☐ Other:

Why are pandas dataframes used in data science, not just numpy arrays? (all that apply) \* 2 points

- ☒ Pandas dataframes have better performance
- ☐ Machine learning libraries require pandas dataframes
- ☐ Numpy arrays cannot handle missing values
- ☒ Pandas dataframes were developed specifically for tabular data, that is stored in rows and columns
- ☐ Other:

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