Open Data Science For All Proposal

Overall Vision:

OpenDS4All is a project created to accelerate the creation of data science curricula at academic institutions. While a great deal of online material is available for data science, including online courses, we recognize that the best way for many students to learn (and for many institutions to deliver) content is through a combination of lectures, recitation or flipped classroom activities, and hands-on assignments.

OpenDS4All attempts to fill this important niche. Our goal is to provide recommendations, slide sets, sample Jupyter notebooks, and other materials for creating, customizing, and delivering data science and data engineering education.

The project hosts educational modules that may be used as building blocks for a data science curriculum.

Semester Specific Goals:

1. Adding new content to the machine learning module using Python Jupyter Notebook.
2. Create ppt (min 30 slide) as a complementary to the Jupyter Notebook.
3. Data use cases on Covid-19.
4. Maybe a sample quiz or homework on our topic.

Milestones:

Houhua Li:

1. Complete deep learning and convolutional neural networks, with basic difficulty, module, by early to mid July
2. Covid-19 data use case with Rouhua by mid Aug.

Ruohua Li:

1. Add new content in regard with NLP using Python Jupyter Notebook. ---Mid July
2. Create ppt as a complementary. ---by the end of July, Or together with #1
3. Apply data use cases on Covid-19 together with Houhua Li ---by mid Aug

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