



Presentation by CREASEN NAICKER

ABOUT

- Released in 2018
- Gradient notebooks is a web-based IDE(Integrated Development Environment). It runs jupyter notebook inside an environment.
- There are 18 “containers” that are pre-configured into Gradient. Some examples are PyTorch, Fast.Ai, Tensor Flow, adn Jupyternotebook for R.
- It is cloud based so

SPECIAL FEATURES

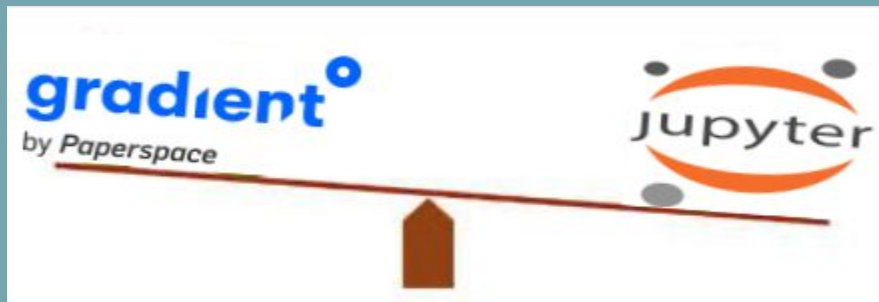
- Free access to CPU and GPU instances
- Web IDE
- Notebooks built on portable Docker containers (start up is quick)
- Run any common ML framework
- Real time Collaboration

COMPARISON TO JUPYTER

- They both can show visual data
- They both support multiple languages and environments
- They both have markdown features
- They both can be used for free. (PG has a free tier subscription)
- They are both open source

CONTRAST TO JUPYTER

- Jupyter notebook does not have CPUs or GPU services
- Jupyter does not have built in containers
- Gradient has an awful interface(personal opinion)
- With Gradient, you have to pay to use terminal???
- Gradient is SO SLOW.



When would Creasen use this?

- I would use Gradient Notebooks for machine learning. (paid sub)
- I would use this for creating clusters for analysis. (paid sub)
- I would use this for when I need more machine power. Especially when I am combing through large amounts of data. (paid sub)
- I would use this for creating visual models, especially in a collaborative setting. (paid sub)
- If I had no GPU and or it was slow.

Would Creasen use this?

- If I were in the machine learning space, I would probably use the premium service. As of now, no. I have yet to learn about supervised learning, unsupervised learning, and reinforcement learning.
- I have messed around with the free version of it and it is quite slow. I would rather use VS code or Jupyter. I am sure their paid tier subscriptions have much more to offer than the free one. So, nah.

LINKS AND DOCS

<https://gradient.run/notebooks>

<https://towardsdatascience.com/paperspace-bc56efaf6c1f>

<https://outwittrade.com/paperspace-review/>

<https://blog.paperspace.com/all-new-gpu-backed-notebooks-on-gradient/>

<https://www.explorium.ai/blog/clustering-when-you-should-use-it-and-avoid-it/>