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/