

Robert Gordon University

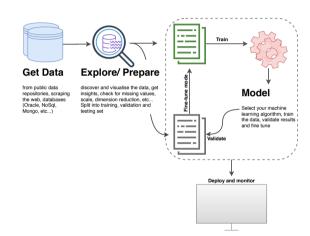
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Data Driven Project

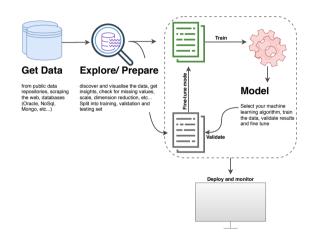
- Obtain a dataset
- Explore and prepare
- Select and model
- Train, validate
- Fine-tune your model
- Deploy



Deploy Your Solution



- Docker & Kubernetes
- Flask
- . . .



Good Read https://christophergs.com/machine%20learning/2019/03/17/how-to-deploy-machine-learning-models/

streamlit

Why?

 Easy to use and quick way to create and share data driven apps. If you know Python, almost no learning curve

Learning Resources

 Wide range of examples with code¹ and great community support²

¹https://www.streamlit.io/gallery

²https://discuss.streamlit.io/

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[Source: https://github.com/streamlit/demo-face-gan]

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Today's Session

- Install streamlit, run existing built-in demos and explore code³
- Complete example (Face Recognition and Support Vector Machine)
- Simple task (load and visualise a dataset using *streamlit*. This is part of a full example on exploring covid19 related data⁵

³https://docs.streamlit.io/en/stable/

⁴https://github.com/heyad/python-user-group-abdn

⁵https://github.com/heyad/covid19World

Python Resources

- Books, videos, Code https://github.com/academic/awesome-datascience
- More in-depth (Research): Papers with Code https://paperswithcode.com/

Thank You

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