

Resources

Data

Fair Principles. <https://www.go-fair.org/fair-principles/>

European Open Science Cloud - resources for the Medical & Health Sciences. https://marketplace.eosc-portal.eu/services?scientific_domains=38

UK Biobank. <https://www.ukbiobank.ac.uk>

Broad Bioimage Benchmark Collection. <https://bbbc.broadinstitute.org>

Collection of Public Biology Data Sets. <https://github.com/awesomedata/awesome-public-datasets#biology>

Know your data. <https://knowyourdata.withgoogle.com>

Lecture on Free and Open Technologies (Christoph Derndorfer and Lukas F. Lang, TU Wien, 2019/2020). <https://free-and-open-technologies.github.io>

AI / Machine Learning

Teachable Machine. <https://teachablemachine.withgoogle.com>

Playground (TensorFlow). <https://playground.tensorflow.org/>

Programming

Kaggle courses. <https://www.kaggle.com/learn>

Software Carpentry (exemplary course). <https://swcarpentry.github.io/python-novice-inflammation/>

NumPy. <https://numpy.org/learn/>

Pandas. https://pandas.pydata.org/docs/user_guide/index.html

Scikit-image. https://scikit-image.org/docs/stable/auto_examples/

Scikit-learn. <https://scikit-learn.org/stable/>

TensorFlow resources. <https://www.tensorflow.org>

Keras resources. https://keras.io/getting_started/intro_to_keras_for_engineers/

Data visualisation: plotly express. <https://plotly.com/python/plotly-express/>

Data visualisation: matplotlib. <https://matplotlib.org/stable/gallery/index.html>

Mentioned in the Course Material

Video: A brief history of AI (Lernende Systeme). <https://www.youtube.com/watch?v=yaL5ZMvRRqE>

Video: Deep Fake Barack Obama. <https://www.youtube.com/watch?v=cQ54GDm1eL0>

Which face is real (GANs). <https://www.whichfaceisreal.com/index.php>

DeepArt (Style Transfer). <https://deepart.io>

Data Bias. <https://twitter.com/Chicken3gg/status/1274314622447820801>

CNNs - convolution. <https://twitter.com/3blue1brown/status/1303489896519139328?s=20>

Distill - Feature Visualisation. <https://distill.pub/2017/feature-visualization/>

HHU

KI für alle lecture (in German). <https://mediathek.hhu.de/playlist/388>

Resources on CAI webpage. <https://www.cai.hhu.de/service/serviceseiten/online-resources>

medRSD workshops. <https://www.graduiertenzentrum-medizin.hhu.de/workshops/terminuebersicht>

iGRAD workshops. <https://www.igrad.hhu.de/en/course-offers/workshop-programme>

Gorilla data. <https://www.hhu.de/en/news-article/missing-the-gorilla-for-the-hypotheses>