TAMING OUR FUTURE AI OVERLORDS

Microsoft

HI, I AM CLAUS

blog.x5ff.xyz

- Rust
- Machine learning
- Writing about practical things

WHAT YOU ARE GOING TO LEARN

1. Data Science & Ethics
2. Classic Machine Learning
3. Deep Learning With Keras
4. APIs

GOAL

Give you an overview and directions where to go for more.

SET UP OPTIONS

LOCAL (USB)

1. Copy files and `requirements/` folder to disk
2. `$ pip install -r requirements/requirements.txt --no-index --find-links requirements`

SET UP OPTIONS

ONLINE

- Go to notebooks.azure.com and setup from github.com/celaus/computer.vision.101 (risky)

MEANWHILE ...

... TALK ABOUT ETHICS

STATISTICAL BIAS

Statistical bias is a systematic tendency in the process of data collection, which results in lopsided, misleading results. This can occur in any of a number of ways, in the way the sample is selected, or in the way data are collected.

Wikipedia

PROBLEM SELECTION

Select the business problem first

- For whom is this a problem?
- What's the benefit?
- Is the solution ethical?

DATA SELECTION

- Do you have sufficient data?
- Does the data reflect the real world?
- Test & Validation data sets!

MODEL SELECTION

- Impact of false positives?
- Absolute numbers of failures?

LET'S START!

`$ jupyter notebook`

localhost:8888

HELP!

COMMERCIAL SOFTWARE ENGINEERING

Short engagements to solve your novel business problems, for free

Ask your account manager

AZURE TOOLS

- Model management
- Databases
- GPU VMs
- Tools (DataBricks,)
- Deployment (AKS, AppService, VSTS)
- Cognitive Services

ML Tools on Azure

THANK YOU

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QUESTIONS? FEEDBACK?