



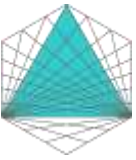
Data Science for open innovation in SMEs and Large Corporations



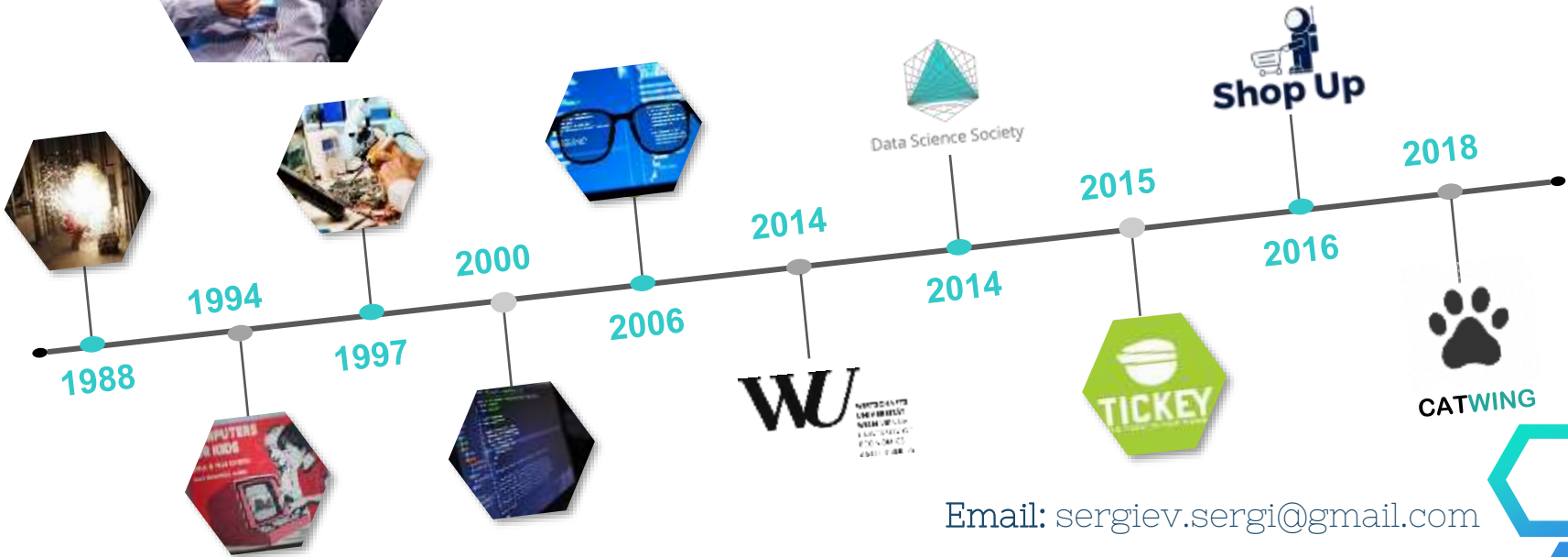


FRAMEWORK

- Hot topics in Data Science
- Open-source culture
- Intro Data Science Society
- Business cases from:
 - Telecom company (SNA)
 - German retailer (Object Detection)



SERGI SERGIEV



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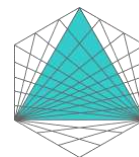
HOT TOPICS

- Image processing
 - Image generation
 - Video generation
- Robotics
 - Train the robot
 - Autonomous cars
- NLP
 - Text generation
 - #BEYONDFAKENEWS





IMAGE GENERATION



[A Style-Based Generator Architecture for Generative Adversarial Networks](#)



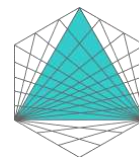
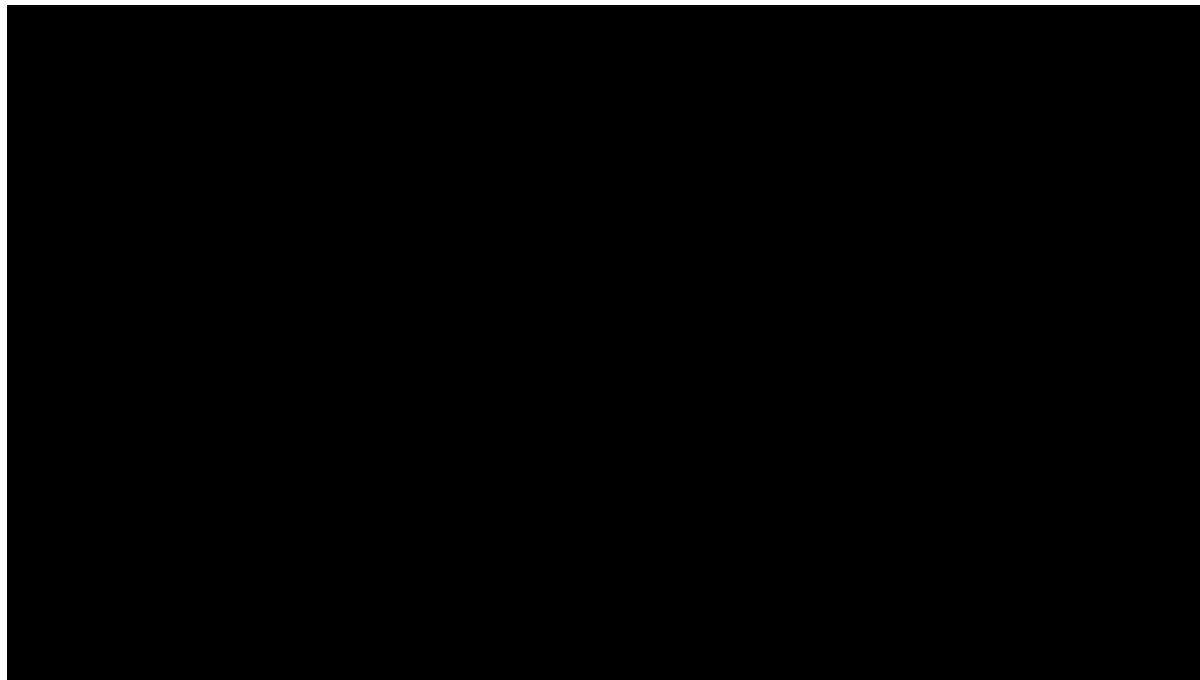
github.com/NVlabs/stylegan
github.com/goberoi/faceit





VIDEO GENERATION

FakeApp



GitHub

github.com/iperov/DeepFaceLab

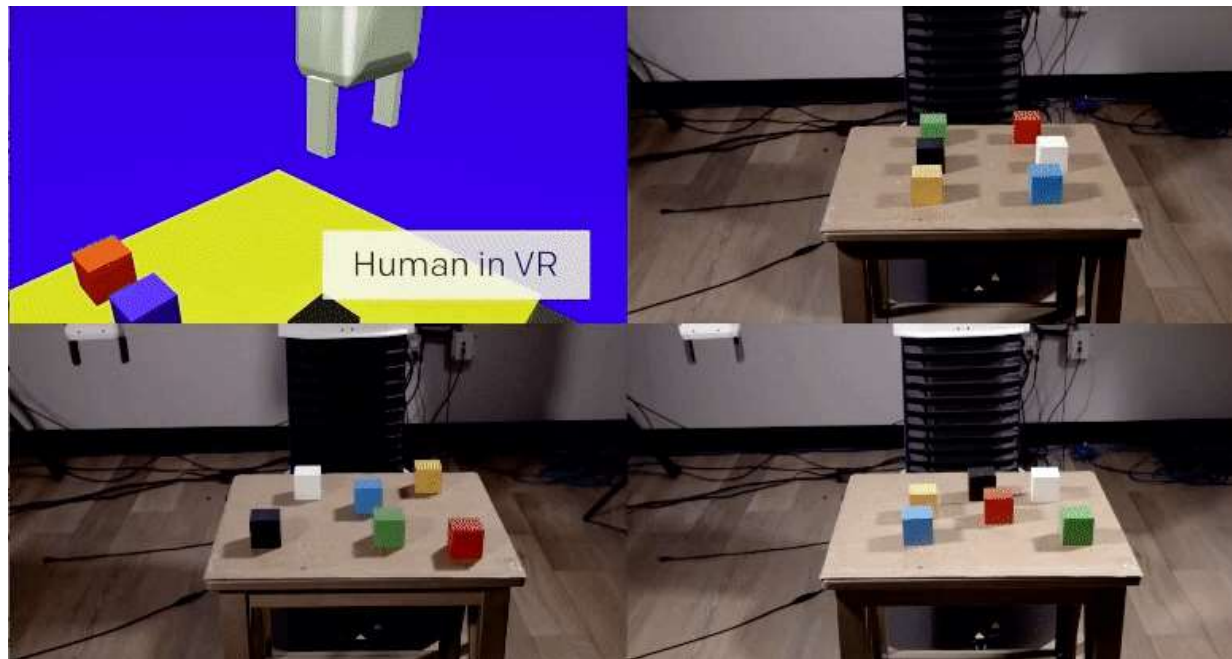
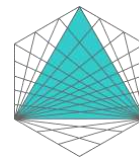
github.com/deepfakes/

github.com/bernhard2202/improved-video-gan





TRAIN THE ROBOT



www.opensource.com/life/16/4/open-source-robotics-projects

www.datasciencecentral.com/profiles/blogs/open-source-robotics-projects

www.blog.openai.com/robots-that-learn/





AUTONOMOUS CARS

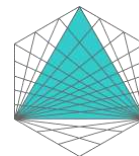


[Open Source Self-Driving Car] github.com/ApolloAuto/Apollo
[Apollo and Baidu] github.com/udacity/self-driving-car





TEXT GENERATION



**The
Guardian**



Elon Musk ✓
@elonmusk



Replying to @elonmusk and 2 others

Also, Tesla was competing for some of same people as OpenAI & I didn't agree with some of what OpenAI team wanted to do. Add that all up & it was just better to part ways on good terms.

♡ 1,981 6:27 AM - Feb 17, 2019



💬 184 people are talking about this



- ❑ **Full GPT-2 code:
1.5 billion parameters**
- ❑ **Junior GPT-2 code:
around 120 million**



GitHub

github.com/openai/gpt-2





#BEYONDFAKENEWS



“Propaganda is the new weapon which influence people opinions or believes at certain ideology whether that ideology is right or wrong.”

 **3 levels of difficulty**

 **40 solutions**

 **20+ countries**

Leading institutes against news propaganda.



A DATA PRO



 Data Science Society
www.bit.ly/HackNews



OPEN-SOURCE CULTURE

- ❑ **Accelerators:** Metro, BMW startup garage, Coca Cola, McDonalds
- ❑ **Challenges**
- ❑ **Google Deepmind** [www.deepmind.com/research/open-source/open-source-code/]
- ❑ **Amazon over 1600 projects on GitHub** [www.aws.amazon.com/opensource/]
- ❑ **Baidu** [github.com/baidu]
- ❑ **Unilever:** R&D €1 billion, staff: 6 200, 30 - 40 %
- ❑ **OpenAI** [github.com/openai]

60+ meetups and conferences

Monthly events and conferences where people with expertise in different areas share their cases and problems in different industries from a Data Science prospective.



150+ solutions from 28 cases

100+ teams with 1 to 25 years of expertise involved in solving various business cases



7 Datathons

A weekend-long online and physical international competition with real-world business cases, top experts, 350+ participants from 20+ countries.

Members over 50 countries

- Senior developers
- Master and PhD Students in Data Science, Statistics, Business Analytics etc.
- Domain experts passionate about data
- Mathematical and data geeks



15+ training sessions

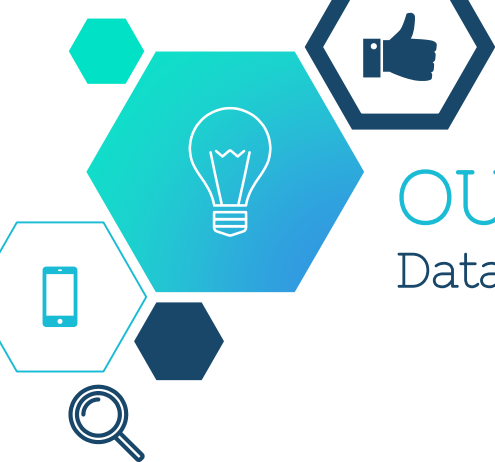
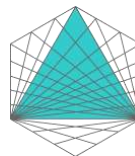
Various trainings, workshops, master classes, summer school etc... are organized with practical implications in Data Science domain.



Working with Universities

Organizing different events, Academia Datathons and monthly challenges working closely with +10 Universities





OUR OWN ENVIRONMENT

Data.Platform [THE FOUNDATION OF BEING GLOBAL]



Online Learn repositories



230 + SIG + Scientific Articles

Data.Chat



75 000 + Messages

Data.Cloud



Jupyter Notebook integration
with R and Python



GERMAN RETAILER (OBJECT DETECTION)



Input data:

- ❑ 68 products
- ❑ ~ 70 000 product images with plastic bags

Output:

- ❑ 99.46% top3 accuracy (90.18% top1)
- ❑ processing time 0.006 s per image on a single GPU Titan X



Data Science Society

www.bit.ly/DSSretail





TELECOM COMPANY (SNA)



CASE CATEGORY SOCIAL NETWORK ANALYSIS

Input data:

- 1 011 619 calls
- 32 774 unique core members

Output:

- Group leaders
- Fraud detection
- Family detection
- Colleagues detections



Data Science Society

www.bit.ly/DSSsna



DATA SCIENCE SOCIETY

COMMUNITIES

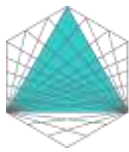


DATA_SCIENCE /CONFERENCE/ 4.0



COMPANIES





Data Science Society

Organizer:

What we do and what we achieve
on our website or social networks:

<http://datasciencesociety.net>

Contacts:

Reach out directly.

Email:

info@datasciencesociety.net

Phone: +359 888 400 290

Become part of DSS!