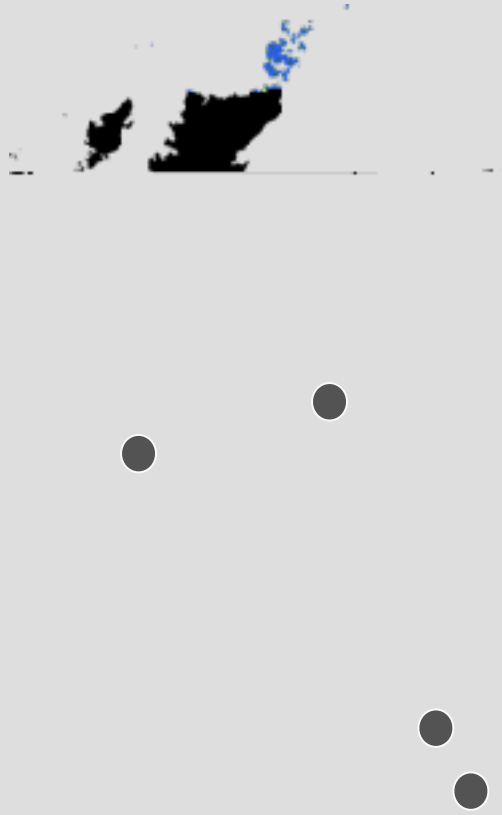
Removing barriers from AI startups

Machine Intelligence Garage

Driving the UK Economy ! through digital innovation

Our Centres

- London
- Brighton
- North East and Tees Valley
- Northern Ireland



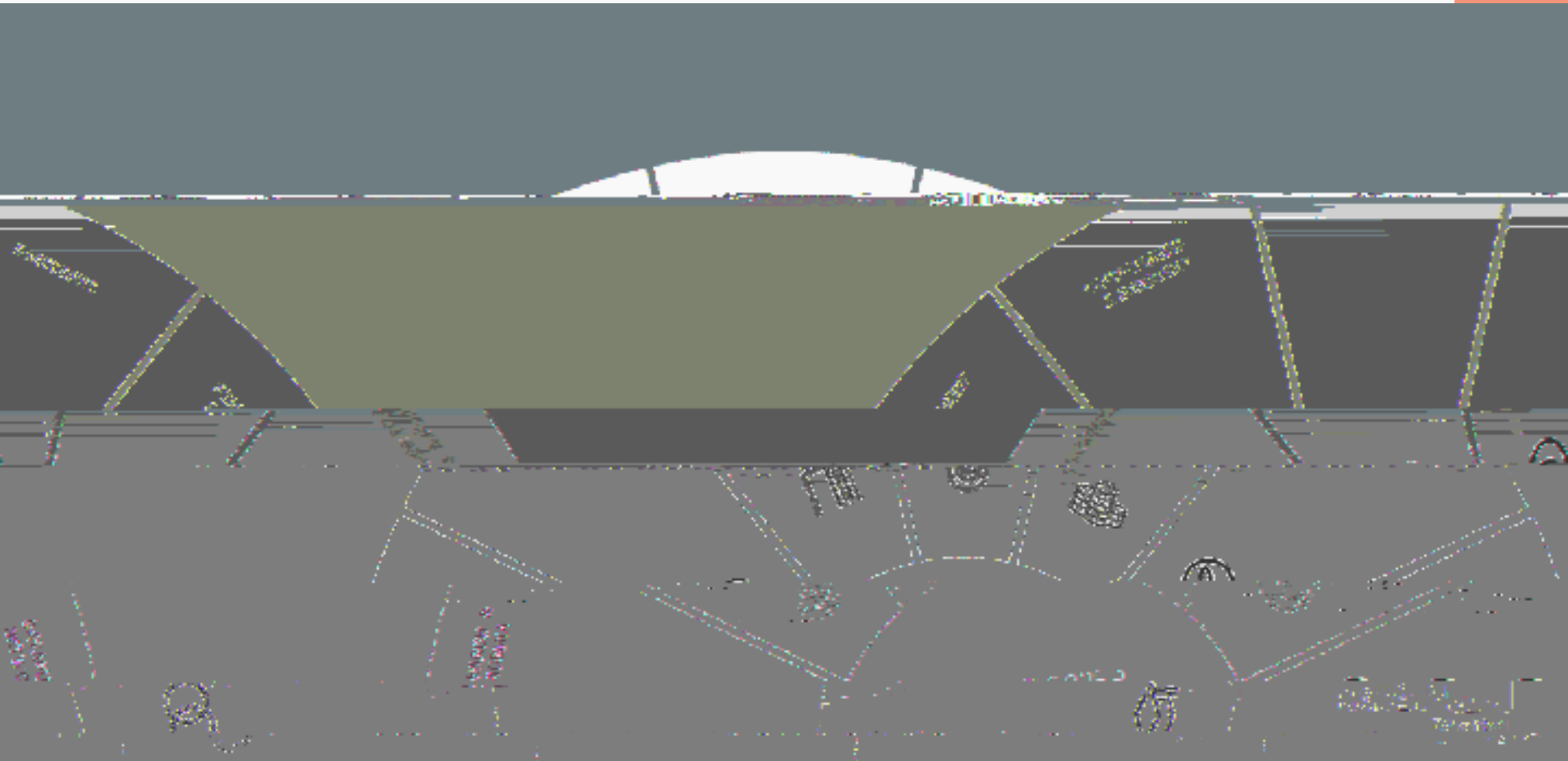
The Technologies

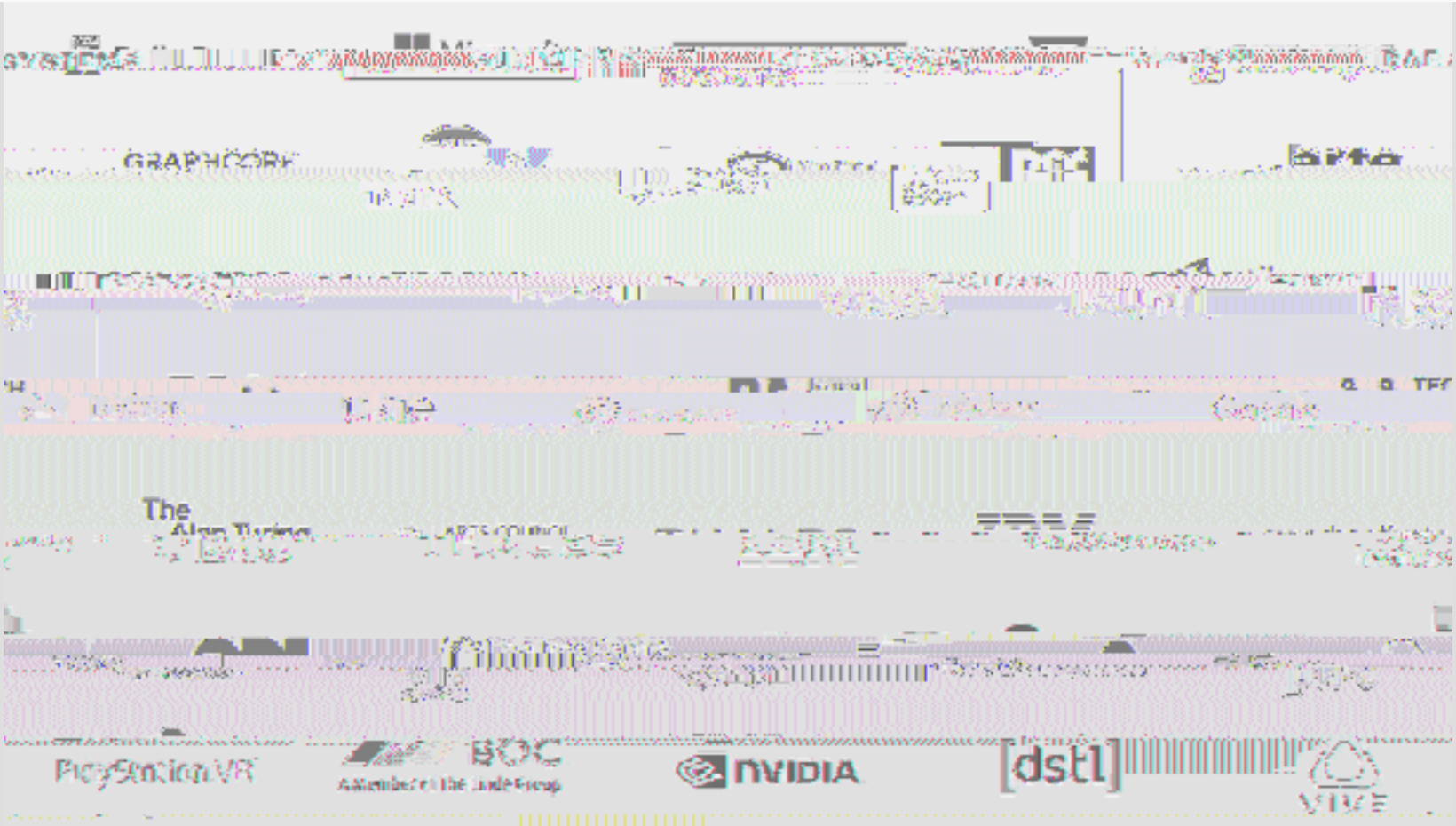
Artificial Intelligence

The Challenges

Lack of access to facilities

Applied into high impact industries – advanced digital technologies will only reach their full potential when applied




GRAPHCORE
The
NVIDIA
[dstl]
VIVE

WORLD LEADI AI RESEARC

4th
Globally by number of publications in AI & ML (behind US, China & Japan)

£69m
EPSRC funds in AI/ML projects to date

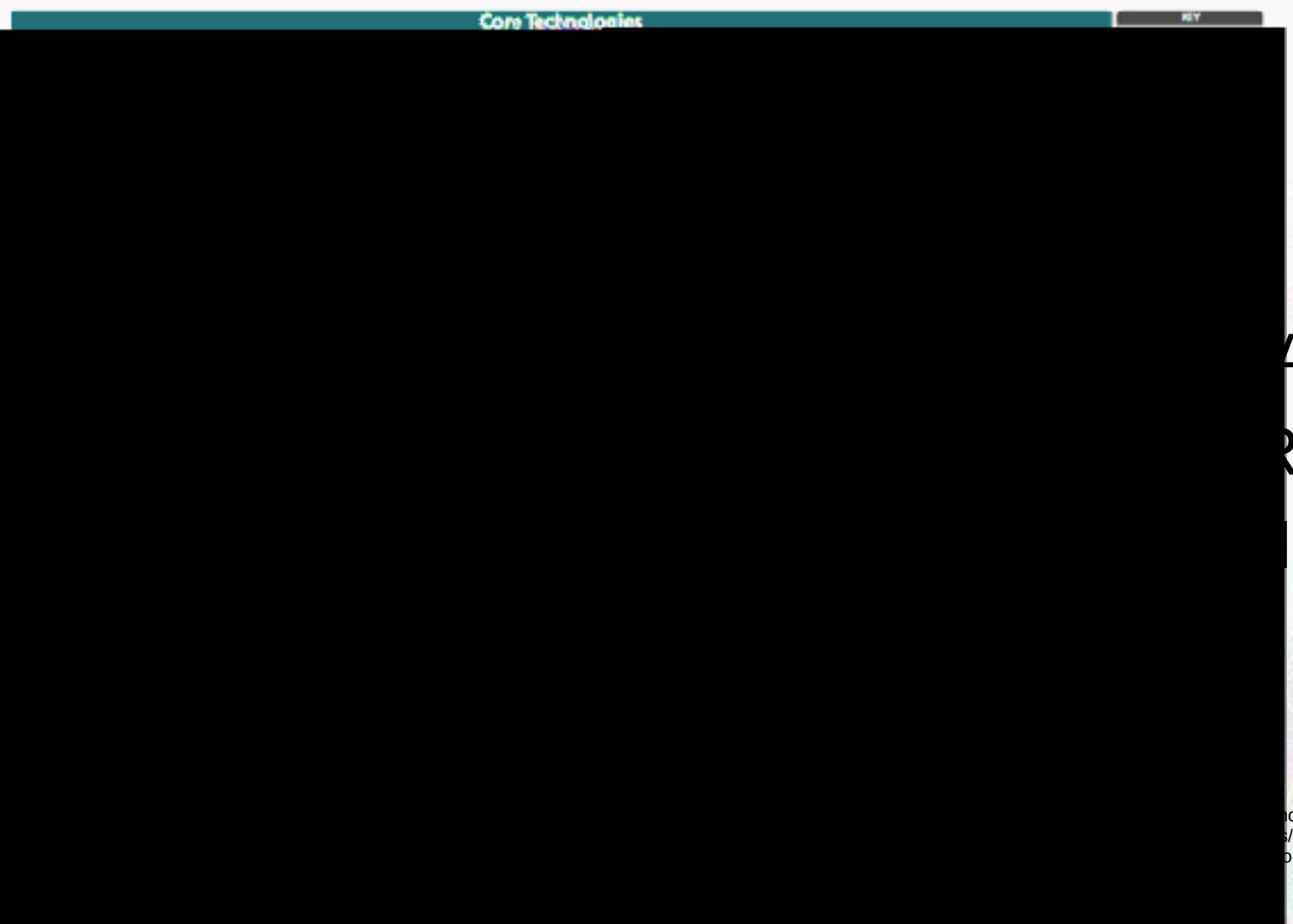
4 of Top 20
Global Universities for Computer Science based in UK

3rd
Globally by no. of citations in AI & ML (behind China & US)

134
EPSRC grant funded projects

2nd
Globally after US for Impact (as measured by H-index)

46
EPSRC funded institutions in AI & ML



INTELLIGENT

AI+ML

RLY STAGE

DSCAPE

cventures.com/wp-
s/2017/10/The-State-of-
on-Point-Summary.pdf

Summer
Winter
Monet
Photos
Zebras
Horses

A tool to be integrated into digital products.

Ultimately, it’s not just hype, but it’s also not going to do everything

There are concerns, but we are in a position to make a difference

Wh h l g c e b ck?

Machine intelligence companies face specific barriers:

- Access to talent
- Access to training data: cost, quantity & privacy
- Access to computation: speed, cost & expertise
- Industry adoption
- Ethics

SATARI UT Digital
Image Processing Machine Intelligence

Hosted hardware (NVidia DGX-1 and Graphcore IPUs)

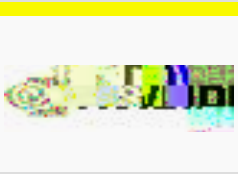
Cloud computing vouchers

Access to existing UK HPC infrastructure

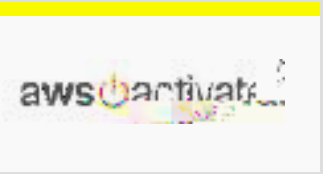
Demo and Experimentation Space with new ML chips

Partners

Google Cloud Platform



Newcastle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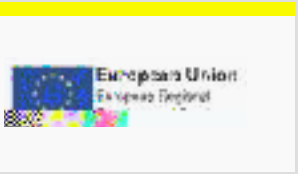
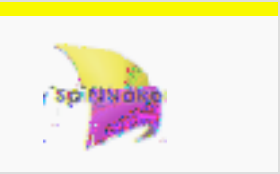
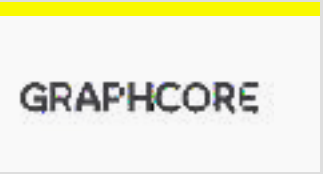
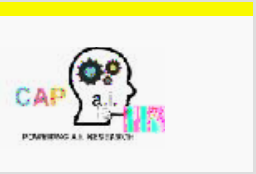

European Union

epcc




GRAPHCORE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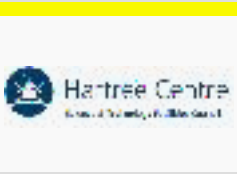
HR


Hartree Centre

CRAY

Rolling open call, applications assessed every 8-10 weeks;
Criteria:

- AI-Enabled Product or Service Idea
- Strong Tech Team
- (Early Stage)
- Immediate Need for Computation
- Data Ready
- Ethical Use of AI

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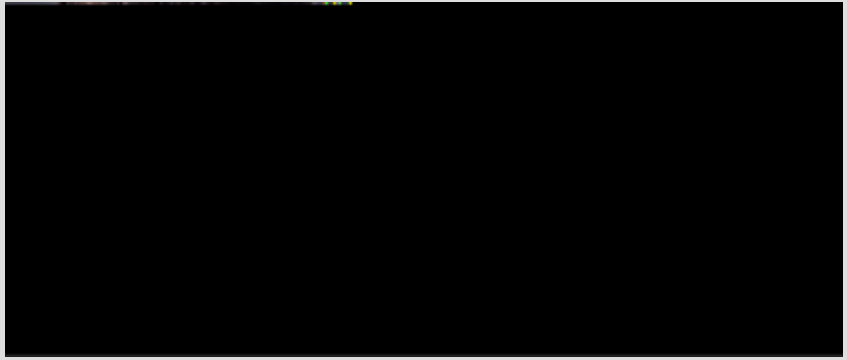
l e e f l e 18"
" 6 k g g , 5 ee g g "

Machine Intelligence Garage

Impact

- Health
- Manufacturing
- Recruitment
- Other

10 UK startups on-boarded in two cohorts



Cambridge Bio-Augmentation systems (CBAS)

Prosthetics using neural signal integration,
Including a “prosthetic interface device”
AI = Deep neural net for predicting behavioral data from neural activity

Cohort #1 - HPC (Hartree centre)

NVIDIA AI inception pitch day in March

They are hiring!

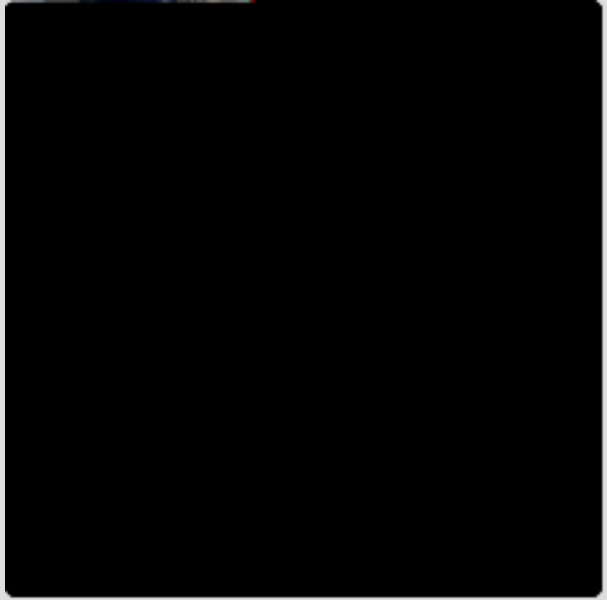
Generative Tensorial Networks (GTN)

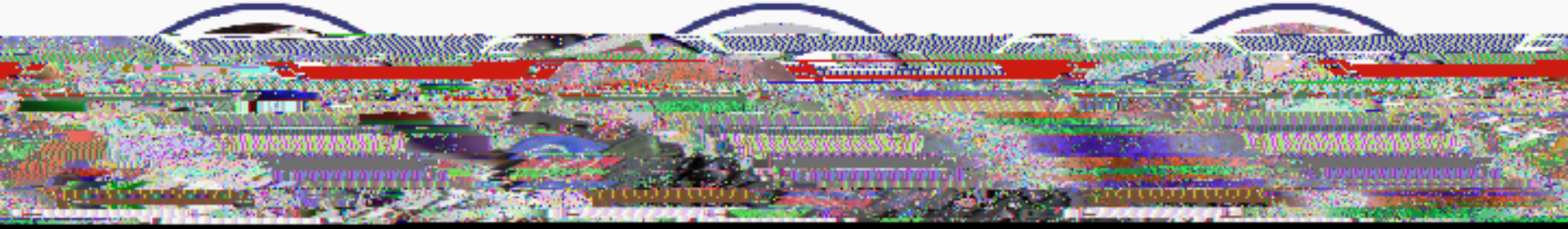
Drug discovery company, using DNNs for compound classification.

Cohort #1 - GCP voucher

£2.1 Mil funding + new hires

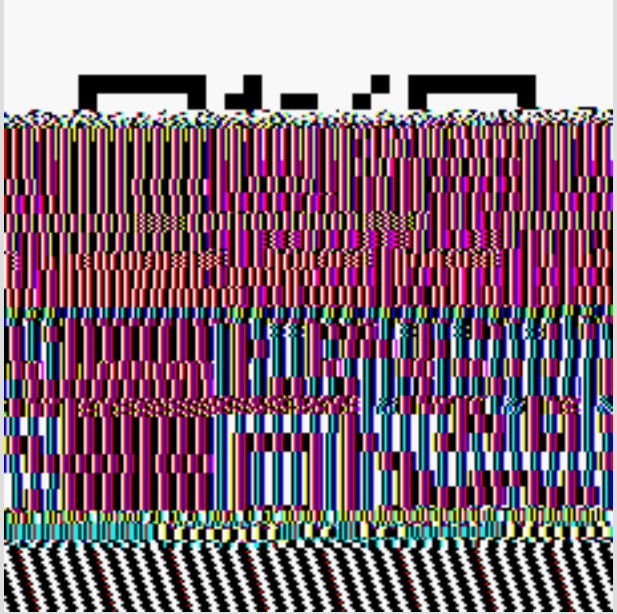
Currently recruiting





This call for applications is open!

https://www.migarage.ai/application-open-call/



Thank you!