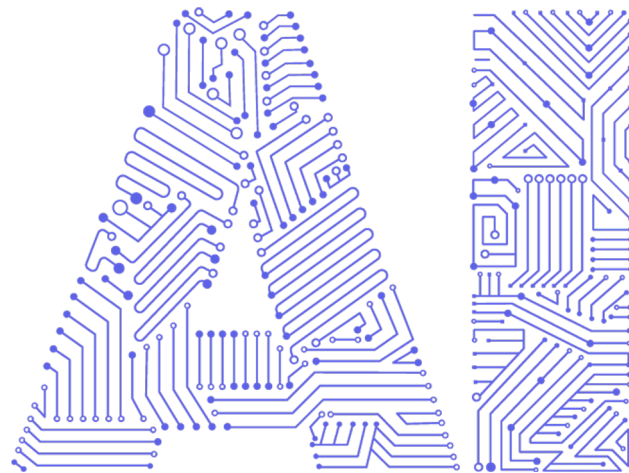


How to Quickly Build Production Ready ML Solutions

Michael Galarnyk, AI Evangelist @ cnvrg.io



Outline

- Challenges with incorporating ML into Applications
- How to bridge this gap
- How to transform any software developer to an ML creator with AI-Blueprints
- How blueprints work
- Real life example of how to build and deploy a production-quality AI Blueprint in minutes



PATTERN
RECOGNITION



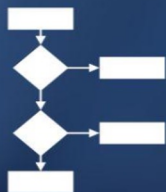
ARTIFICIAL
INTELLIGENCE



AUTOMATION



NEURAL
NETWORKS



ALGORITHM



DATA MINING



PROBLEM
SOLVING

**MACHINE
LEARNING**



PATTERN
RECOGNITION



NEURAL
NETWORKS



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Challenges with Incorporating ML

45%

Have small professional data-science teams (between 0-5)

80%

of ML jobs are not getting to production in most of companies that run massive scale AI

>1T

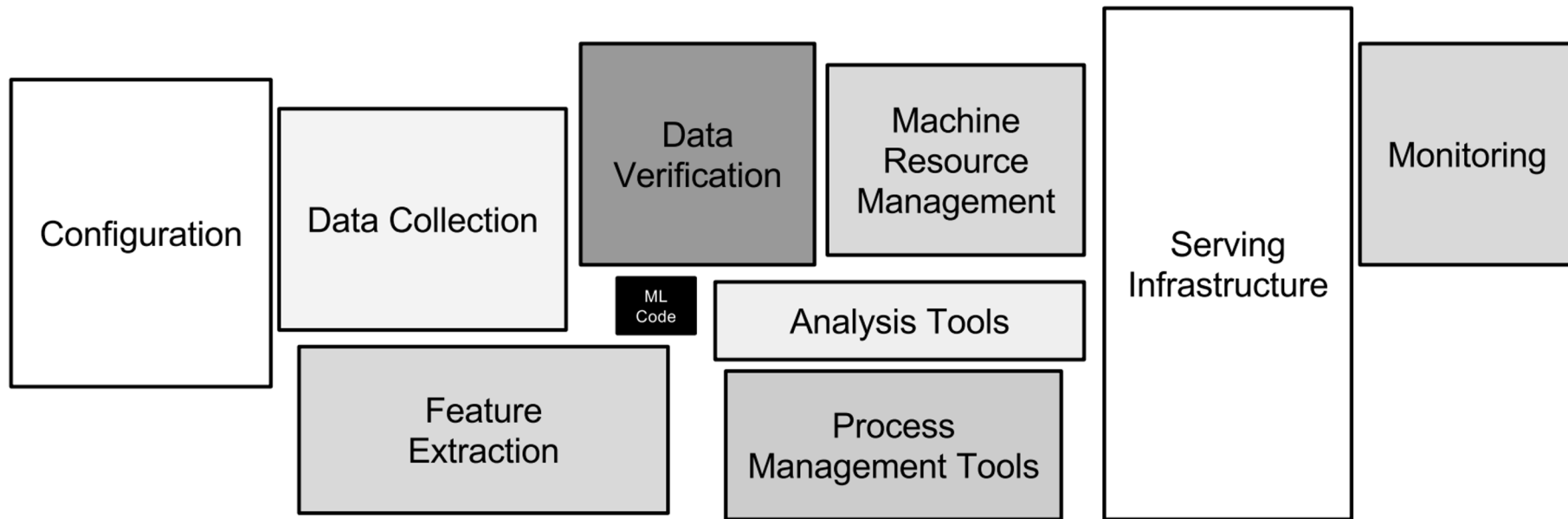
1/5 of data sets are larger than 1T, Handling data is still considered as a challenge

1/3

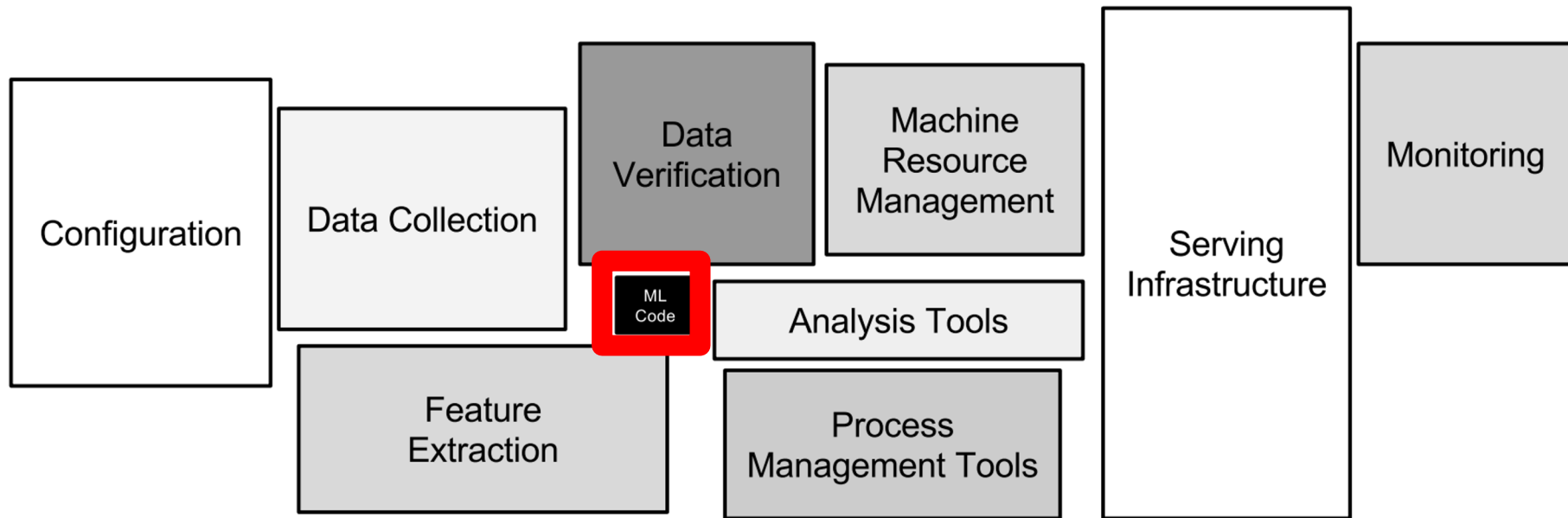
Don't have any automation in their ML pipelines

Source: ML Insider survey, mlcon July 2021

Challenges with Incorporating ML

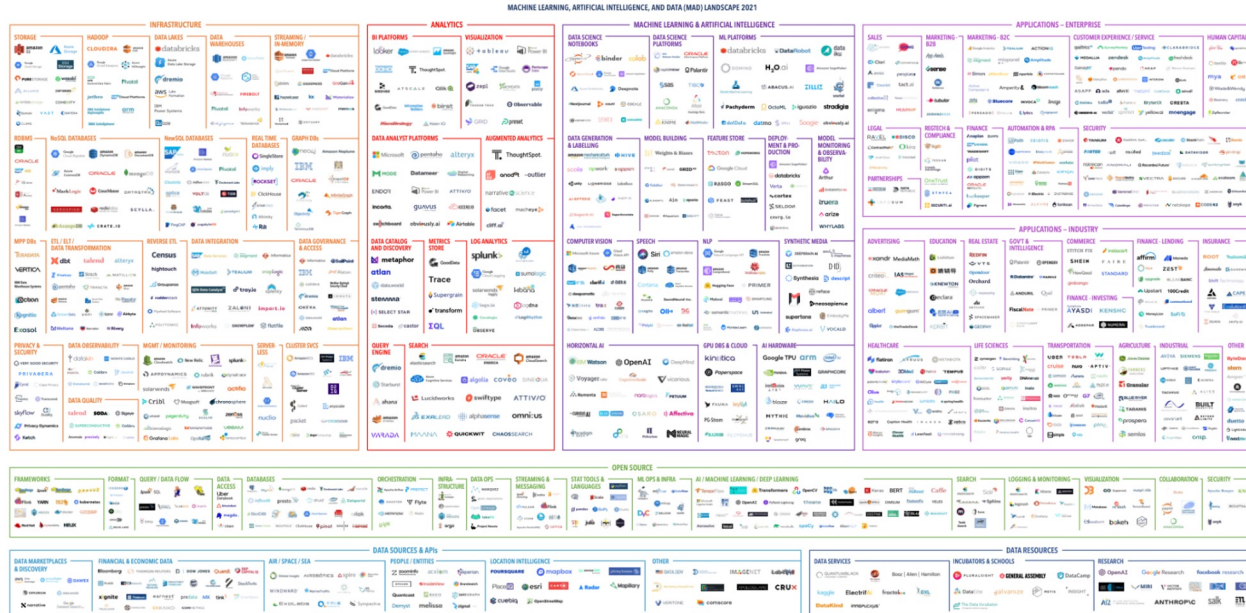


Challenges with Incorporating ML





How to bridge this gap



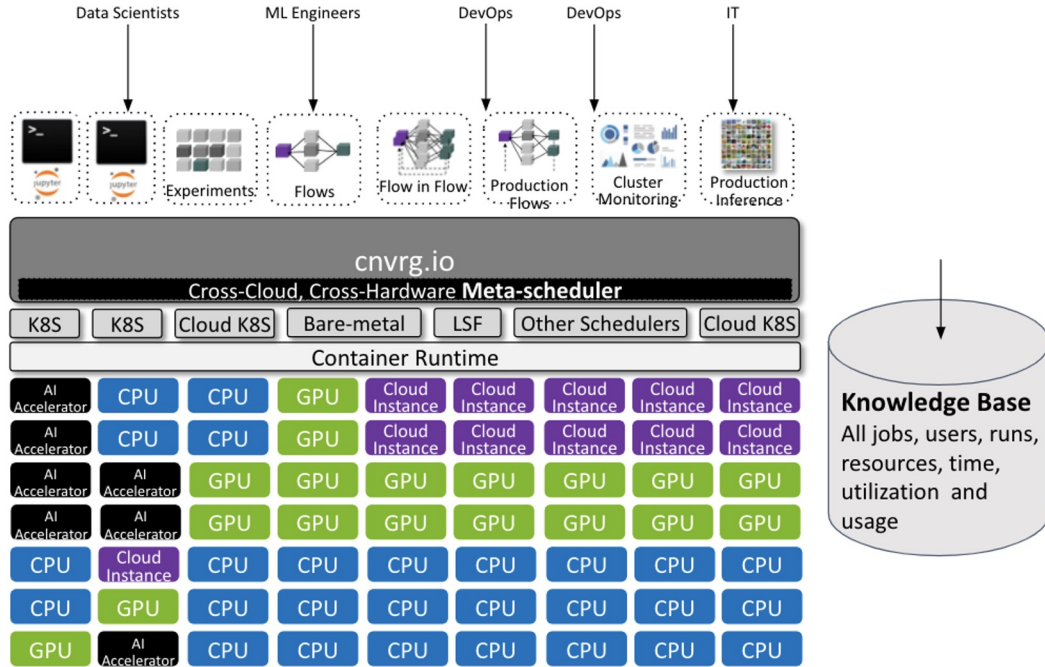
Version 3.0 - November 2021

© Matt Turck (@matturck), John Wu (@john_d_wu) & FirstMark (@firstmarkcap)

matturck.com/data2021

FIRSTMARK
CAPITAL PARTNERS

Bridging the Gap using the cnvrg.io ML Platform



How does this tie into oneAPI?

**Cnvr.io supports
optimized
containers from
the Intel
Developer Catalog
in just one click.**

Registries



cnvr



Intel



Habana



NVIDIA



Docker Hub

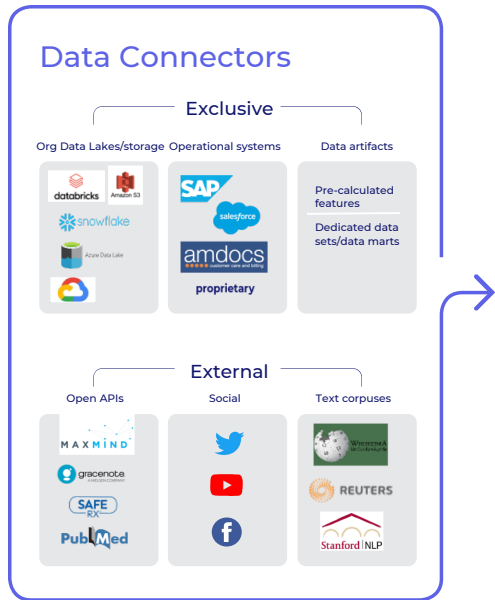
Images

Q intel

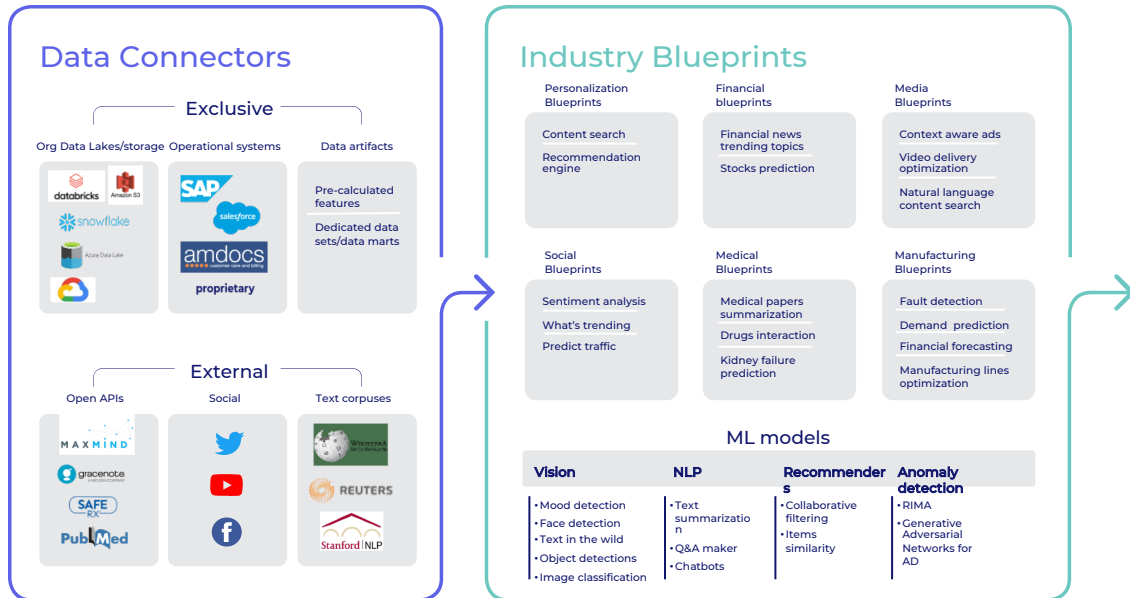
Status	Repository name	Tag
	intel-optimized-tensorflow	2.8.0
	intel-optimized-tensorflow	2.3.0-ubuntu-20.04-jupyter
	intel/image-recognition	pytorch-1.5.0-rc3-imz-2.2.0-resnet50-fp32-inference
	intel-optimized-pytorch	1.5.0-rc3-ipex-latest
	intelanalytics/analytics-zoo	default
	intelanalytics/analytics-zoo	0.8.1-bigdl_0.10.0-spark_2.4
	intelanalytics/hyper-zoo	latest

are ready to use, low-code ML pipelines. Built by data scientists, for everyone.

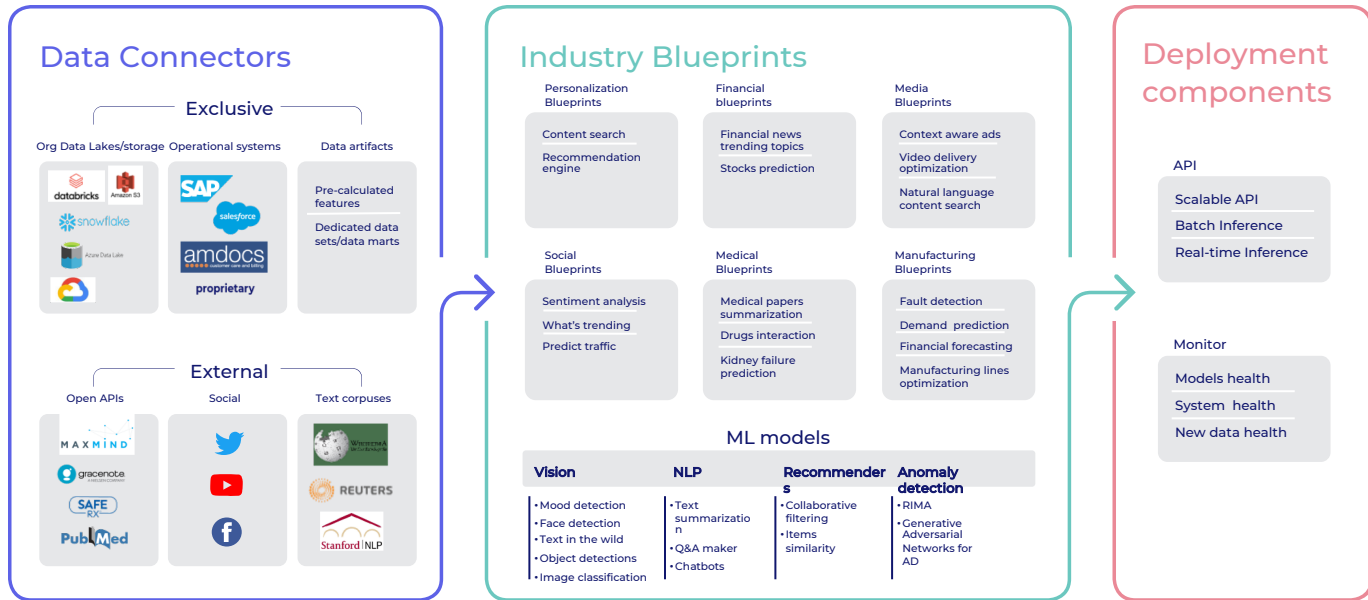
Rich Marketplace of Blueprints and Components



Rich Marketplace of Blueprints and Components



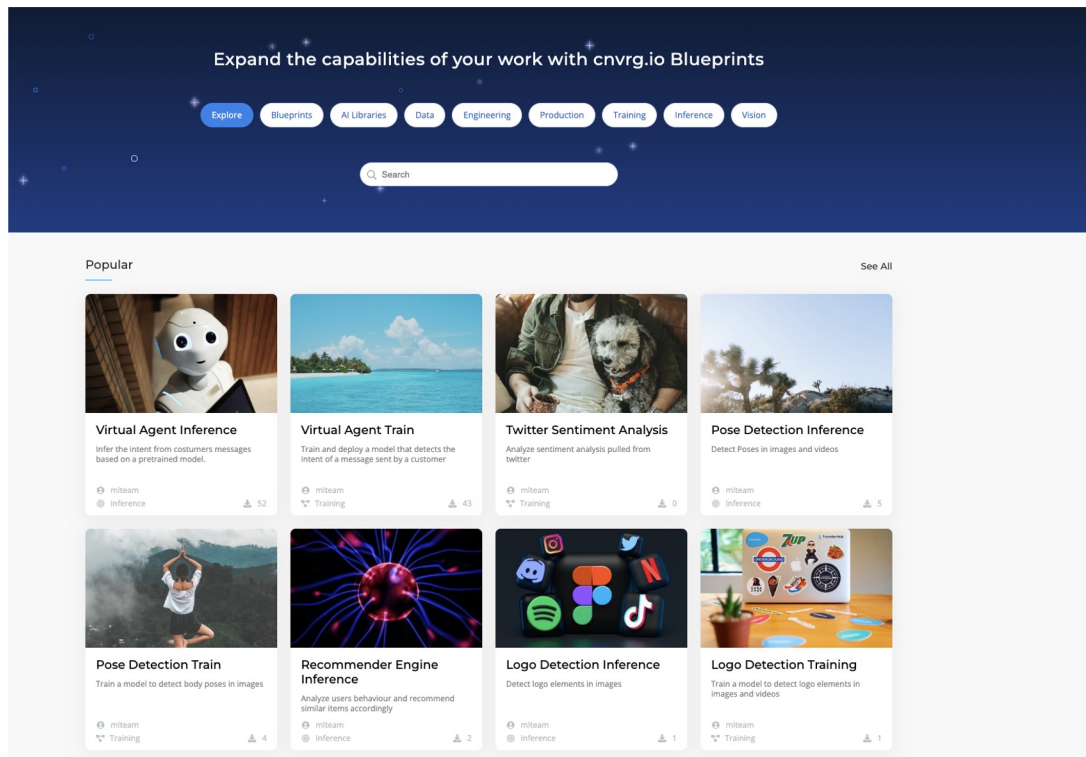
Rich Marketplace of Blueprints and Components



<https://metacloud.cloud.cnvrg.io/marketplace/>

Rich Blueprints, ML-Tasks and Data-Connectors Marketplace

cnvrg.io



cnvrg.io AI Blueprints

**Immediately Use in
Your Code, or Train
on New Data**

```
curl -X POST \
  http://predict7-1.aks-cicd-Grazitti-  
8766.cnvrg.io/api/v1/endpoints/mmwuezrsbf2py5f  
hm65y \
  -H 'Cnvrg-API-Key: RbCdZ64nDJFUXrzcayzJam5u' \
  -H 'Content-Type: application/json' \
  -d '{"input_params": [[1,3]]}'
```



- Papers NEW
- Files
- Workspaces
- Experiments
- Flows
- Serving
- Apps
- Settings

Recommenders Train

Version 1

Run



New Task



The Google logo is centered at the top of the page. It consists of the word "Google" in its signature multi-colored font: blue 'G', red 'o', yellow 'o', blue 'g', red 'l', and green 'e'.

Google

A horizontal search bar with rounded ends. On the left is a magnifying glass icon. In the center is a vertical line acting as a cursor. On the right is a microphone icon.

Search bar with a magnifying glass icon on the left, a vertical line cursor in the center, and a microphone icon on the right.

Google Search

I'm Feeling Lucky

Google offered in: [العربية](#) [עברית](#)

https://metacloud.cloud.cnvrg.io/sign-up



Create Your Account

Already have an account? [Sign in](#)

Email

User Name

Password

Continue

cnvrg.io

By submitting this form, I agree to cnvrg.io's [privacy policy](#) and [terms of service](#).

Thank you

cnvrg.io