

Google Cloud Platform 101

Trusted partner for your Digital Journey

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Agenda

- ▶ Introduction
- ▶ What is Google Cloud?
- ▶ Google Cloud Platform Services
- ▶ Certifications

Konrad Cłapa

- ▶ Trying to inspire people everyday!
- ▶ Lead Architect at AtoS
- ▶ Over 10 Years experience in industry
- ▶ Graduate from TUŁ
- ▶ Over 30 IT certifications, All 10 GCP certificates
- ▶ GCP book author
- ▶ GCP Certified Trainer
- ▶ Worked for top customers
- ▶ <https://gcpfellow.com/>
- ▶ Windsurfing, running, getting things done

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Meet the audience!

- ▶ Online does not need to one-sided!
- ▶ Say hello on the chat and write couple words about yourself!

Cloud Definition

United States National Institute of Standards and Technology

- ▶ *Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction. This cloud model is composed of five essential characteristics"..." and four deployment models.*
- ▶ **On-demand self-service**
- ▶ **Broad network access**
- ▶ **Rapid elasticity**
- ▶ **Measured service**
- ▶ **Provides API access**

Types of Cloud

-  **Private Cloud** – used by specific organization but can be managed by 3rd party.
-  **Public Cloud** – used by general public.
-  **Hybrid Cloud** - composed of two or more different clouds.

Public Clouds

- ▶ AWS (Amazon)
- ▶ Azure (Microsoft)
- ▶ **GCP (Google)**
- ▶ Alibaba Cloud
- ▶ Oracle Cloud

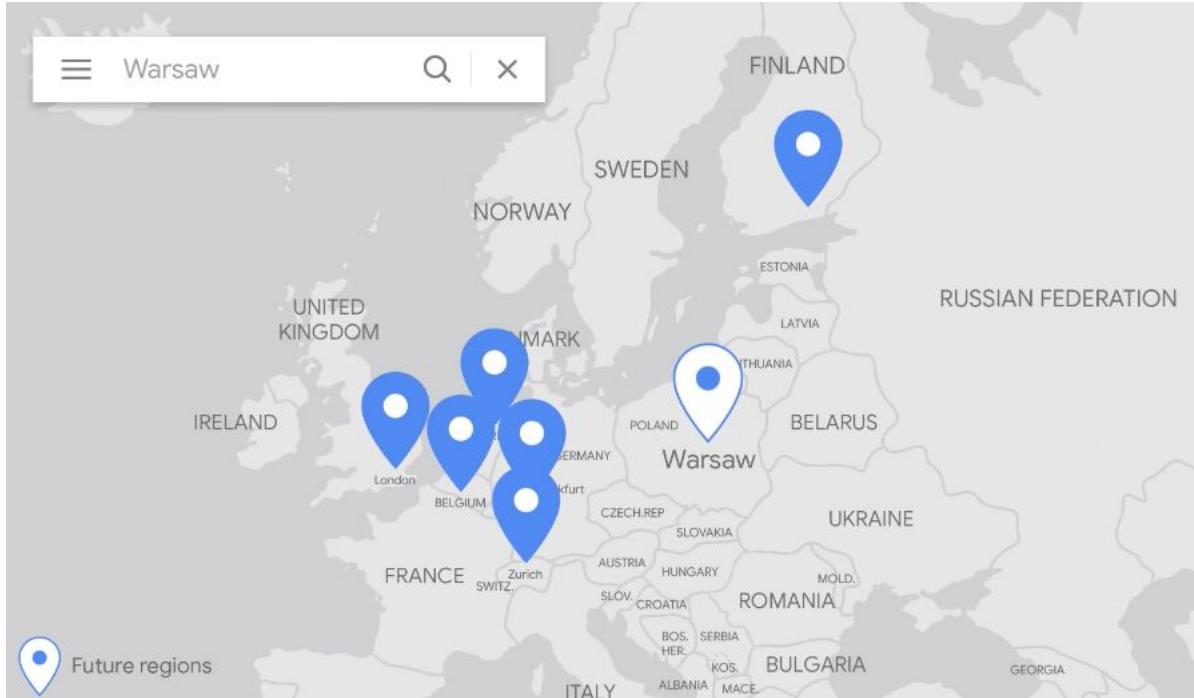
Why would I care?



<https://www.bankier.pl/wiadomosc/Google-inwestuje-w-Polsce-2-mld-dol-7910701.html>



Region in Poland in 2021?



Locations

 24

REGIONS

 73

ZONES

 144

NETWORK EDGE LOCATIONS

AVAILABLE IN

 200+

COUNTRIES AND TERRITORIES

Why GCP?

- ▶ Kubernetes
- ▶ Big Data
- ▶ Machine Learning
- ▶ Security
- ▶ Multi-cloud
- ▶ Developer focused

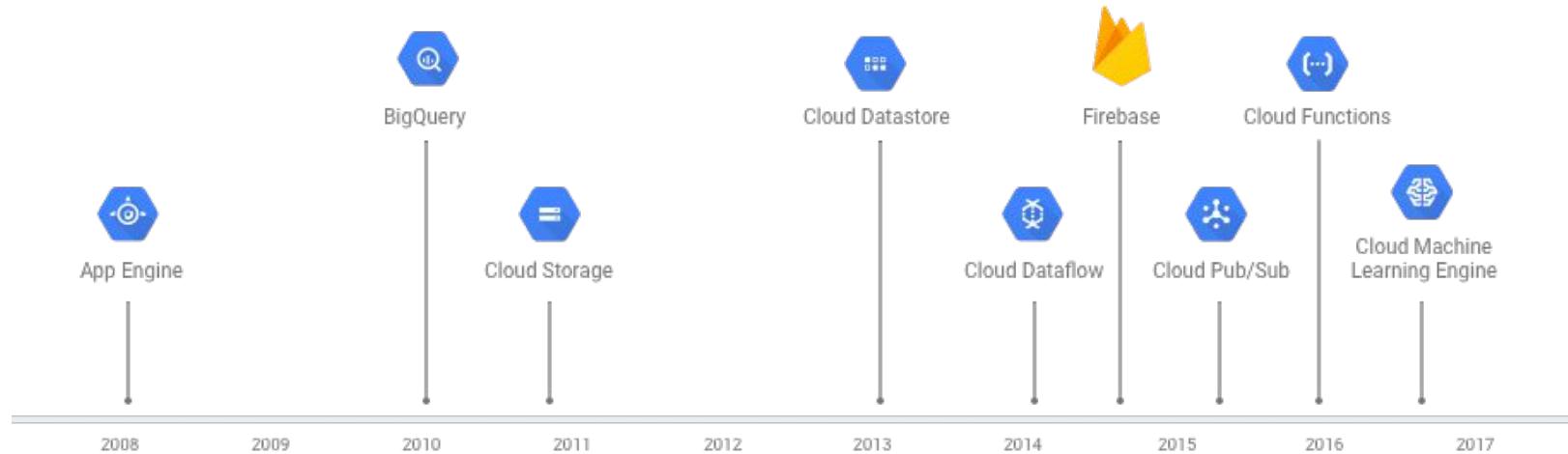


kubernetes



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History of GCP



Courtesy of google.com

CEO change = strategy change!



Thomas Kurian is CEO of Google Cloud, which he joined in January 2019. Prior to that, he was President of Product Development at Oracle Corporation from 1996 to 2018. [Wikipedia](#)

Kubernetes = Google



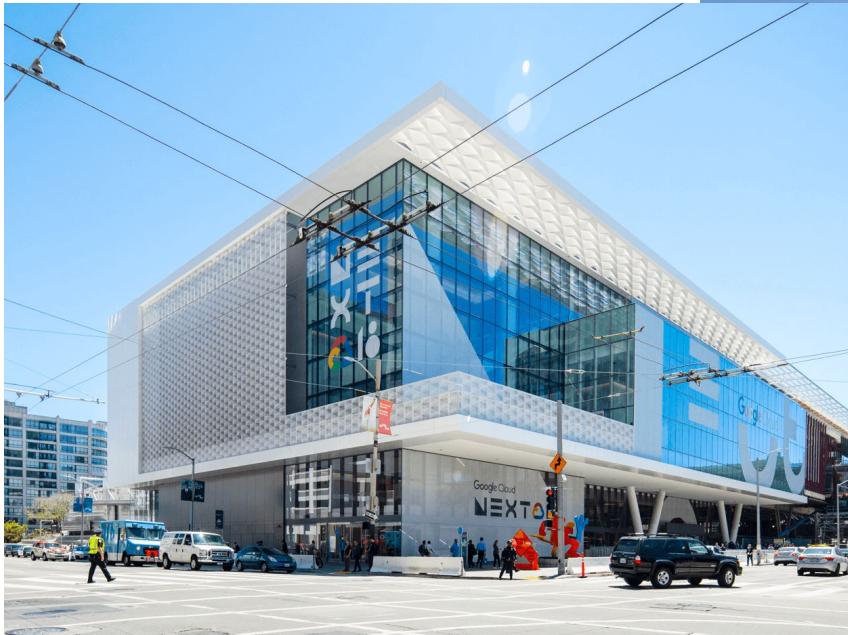
kubernetes



Kubeflow



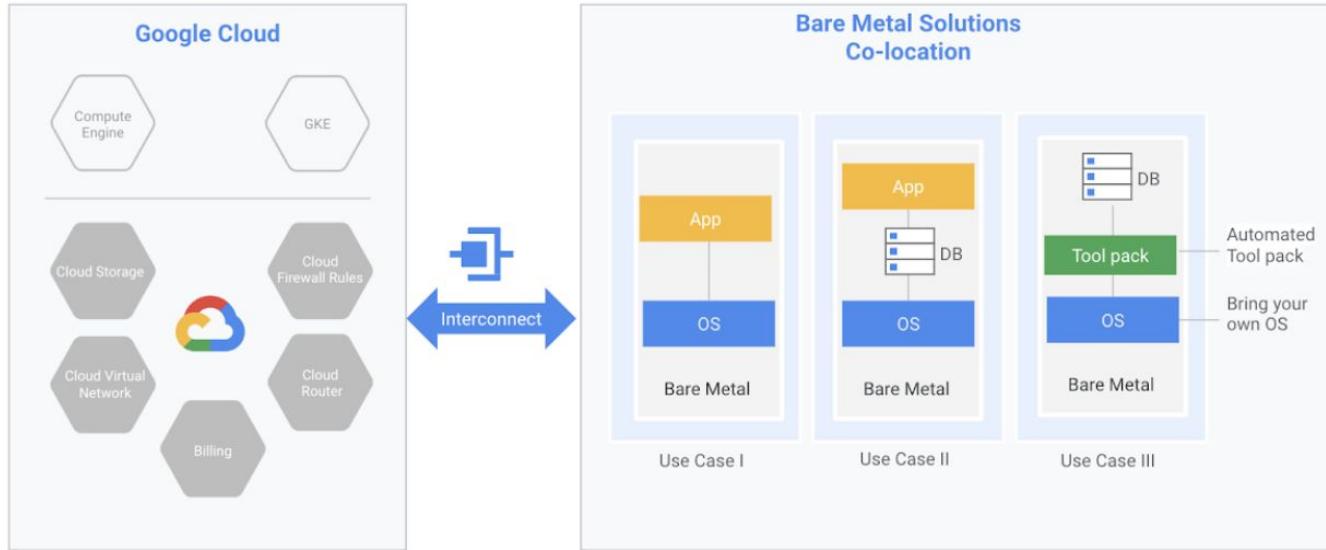
Google Cloud Next Conference



Services

- ▶ Computing
- ▶ Storage
- ▶ Networking
- ▶ Big data
- ▶ Machine learning
- ▶ 3rd Party services

BMS – Bare Metal Solutions by Atos



Database Hotel by Atos

Metropolitan Areas

Frankfurt (GE), Virginia (USA), others

Certified Colocation Data Center
(Twin DC for DR)



Cloud Security
BullSequana S



Google Cloud

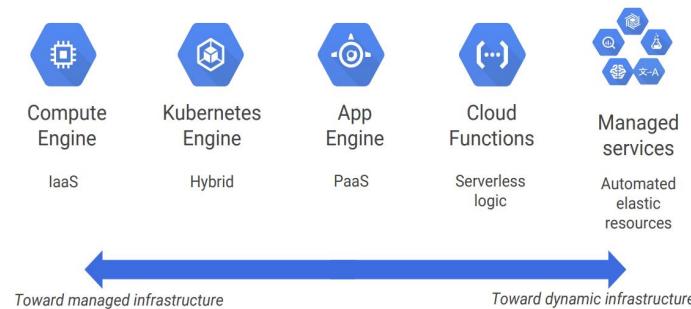
GCP instances / Services

Google Market Place

- ▶ Atos = MPS Google
- ▶ + Google Credits
- ▶ + Billing
- ▶ + 1st line support

Compute options

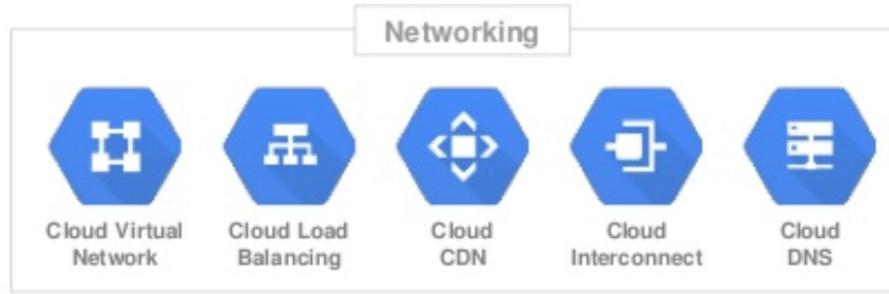
- ▶ Infrastructure as a Service (IaaS) – Compute Engine
- ▶ Container as a Services (CaaS) – Kubernetes Engine
- ▶ Platform as a Service (PaaS) – App Engine
- ▶ Function as a Service (FaaS) – Cloud Functions
- ▶ Serverless Kubernetes – Cloud Run



Storage



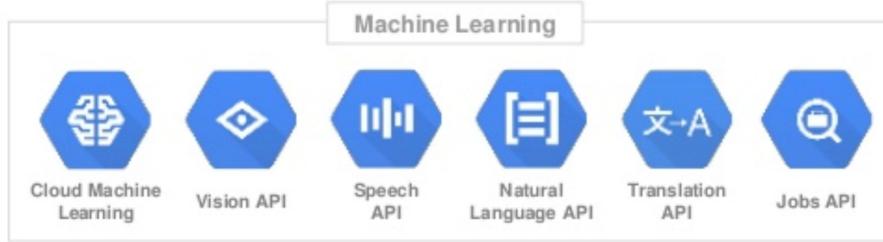
Network



Big Data



Machine Learning

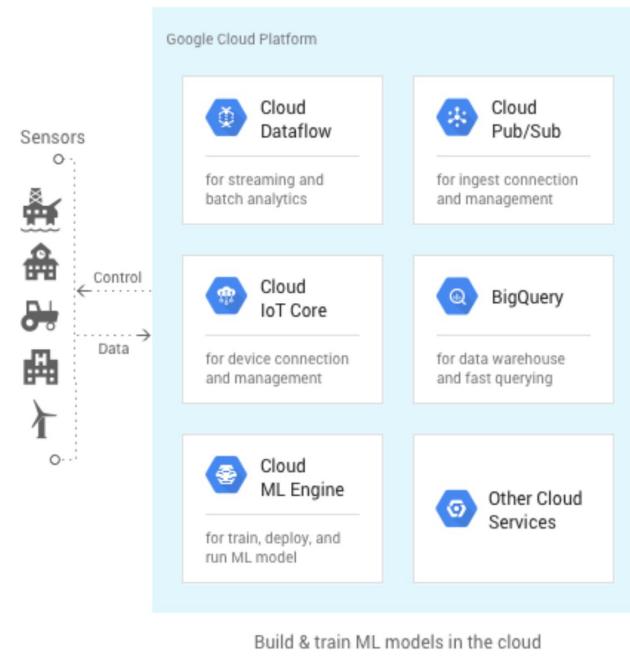


Security



GCP Solutions

▶ <https://cloud.google.com/solutions/>



GCP Customers

▶ <https://cloud.google.com/customers>

Spotify's Journey to the Cloud

Max Charas
[Google](#)

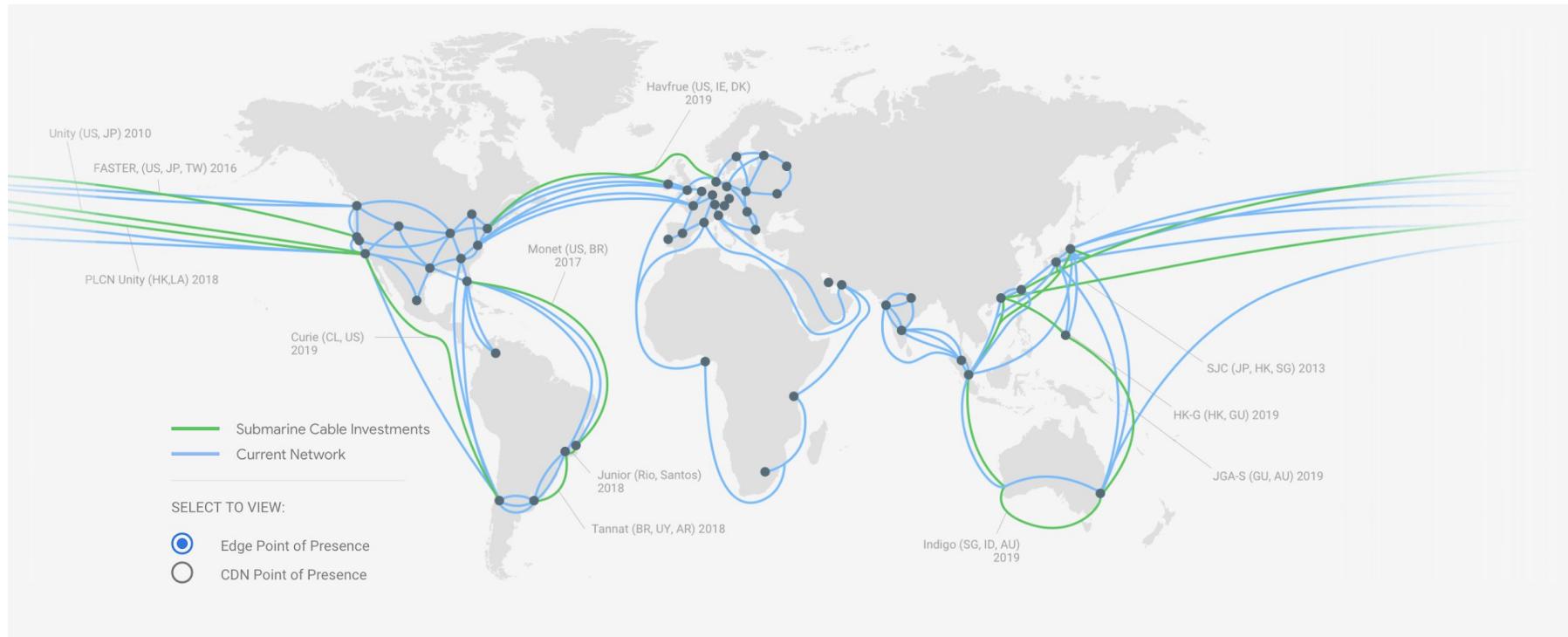
Peter-Mark Verwoerd
[Google](#)

Ramon van Alteren
[Spotify](#)

Josh Baer
[Spotify](#)



Google Network



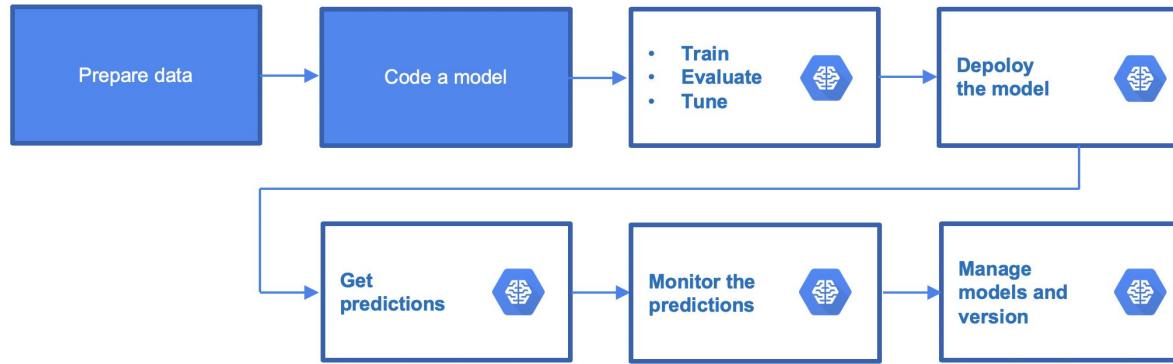
What is Machine Learning

Machine learning is a subset of artificial intelligence (AI). It is used by machines to make decision from data without getting specific instruction.

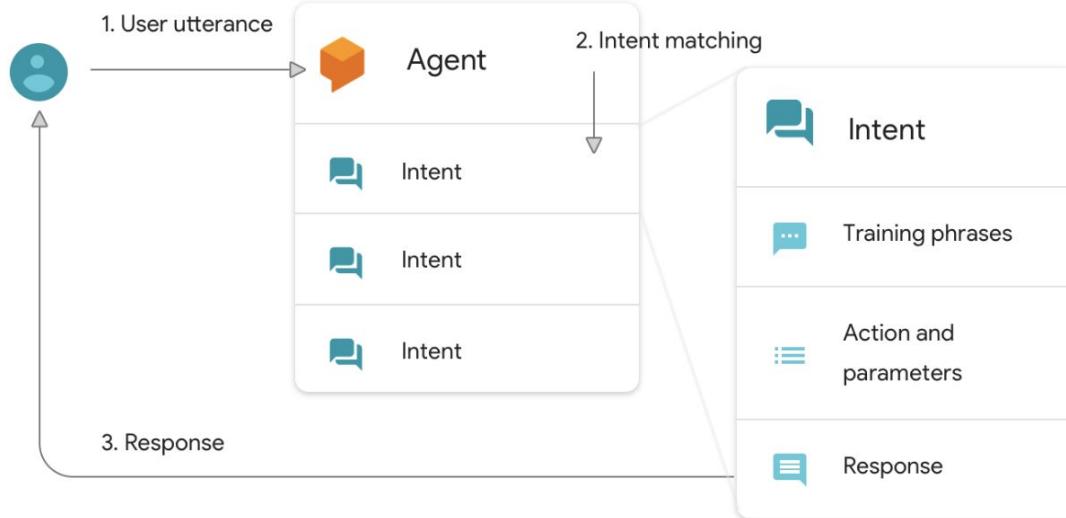
Machine Learning

-  **Tensorflow** (Data Scientist)
-  **Machine Learning Engine** (Data Scientists)
-  **AI Platform/KubekFlow** (All)
-  **Pretrained ML models** (Developer)
-  **Auto ML** (Developer)

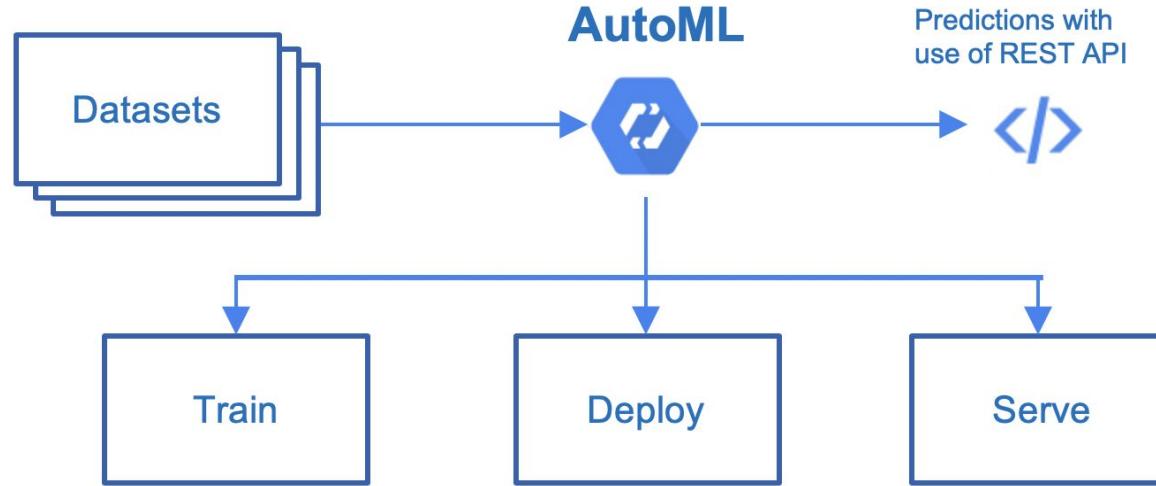
AI Platform



Dataflow



AutoML



Pretrained ML APIs

- ▶ Google Cloud Video Intelligence
- ▶ Google Cloud Speech
- ▶ Google Cloud Vision
- ▶ Google Natural Language
- ▶ Google Cloud Translation

How to work with GCP

- ▶ Google Cloud Console
- ▶ Google Cloud SDK
- ▶ Cloud Shell
- ▶ Terraform
- ▶ Ansible etc.



DEMO

Certifications

**Optional
G-Suite Path**



Fundamental Path



**Data Engineering Path
(optional step)**



Network and Security Path



DevOps Path



Hybrid Cloud Path



Certification swags



Professional Cloud Architect Timbuk2 Flip Pack



Professional Cloud Architect Men's North Face Pullover



Professional Cloud Architect Men's Marine Layer Hoodie



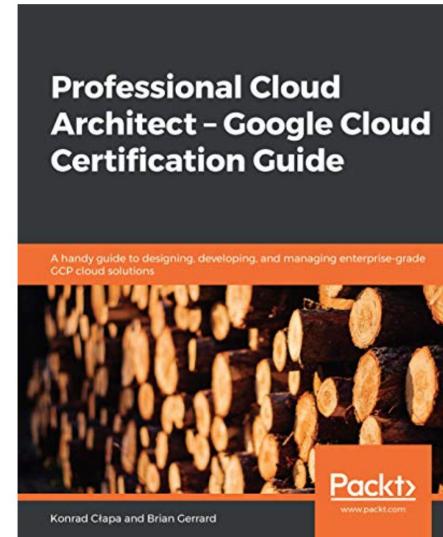
Professional Cloud Architect Women's Marine Layer Hoodie

How do I start?

▶ <https://gcpfellow.com/category/certification/>



How do I learn?



Want to learn more?

- ▶ <https://devfest.pl/>
- ▶ <https://www.meetup.com/pl-PL/gdg-bydgosz/events/>



Thank you - QA

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