TEACHABLEHUB

The Machine Learning Deployment Platform for Teams

Definitions

Teachable - [/ˈtiːtʃəb(ə)l/] - noun - a Machine Learning model deployed as an auto-generated REST, gRPC or GraphQL API, entirely documented, available to be consumed by every server-side or client-side applications.

TeachableHub - [/ˈtiːtʃəb(ə)l,hʌb/] - noun - a fully-managed platform bringing teams together to instantly deploy, seamlessly serve at scale and easily manage Machine Learning models as serverless APIs from a centralized hub.

The Problem

Based on a report from TechRepublic 85% of machine learning projects never get to production and ultimately fail to deliver on their intended promises to business. Failure to operationalize ML/AI can happen for many reasons, more common among which are:

- Operationalizing ML models requires a full team of ML and Data experts with extensive knowledge about deployment.
- There is a steep learning curve for most available deployment solutions on the market.
- The deployment process itself is slow and difficult, sometimes it takes more than a year to get a model to production.
- Serving models requires taking care of scalability, data security, guaranteeing uptime and performance, and more. Addressing those is a complex, expensive, and laborious task.
- Monitoring in production is a very complex task because it is hard to define what exactly you should monitor in the first place, then extract these metrics and create easy-to-understand visualizations.
- Integration is hard as newer solutions might not fit well with legacy systems and your existing stack
- Lack of standardized processes, collaboration issues, and miscommunication between the teams involved in the ML operationalization creates delays and poor execution.
- Overall getting ML models to production is very expensive and exceeds the budget of most small and mid companies.

What Is Seamless Deployment?

In a perfect world, Data Scientist wouldn't have to worry about deploying models and dealing with Kubernetes, Docker, Sagemaker, etc. What's more, each company would have an IT or

DevOps team with all the ML expertise and reliable tooling to operationalize models. In this setup, there is a standardized workflow and deployment takes only a few simple steps to push the model from test to production environment. All things infrastructure are perfectly taken care of. All the repetitive parts of the deployment process are automated. What's left is for Data Scientists to focus on achieving optimal model accuracy to reach the business goals of the organization.

Bringing to life a healthy ML product also requires a certain centralized solution for serving predictions. One that will ensure scalability, security, optimal performance, give a clear view of performance, and allow full control over the model - all this in an easy-to-use manner for the entire team and with a minimal maintenance effort throughout the whole life-cycle.

Last but not least, realizing ML projects can be quite expensive. For companies to properly plan and budget for them, it's important to have clear cost expectations and affordable tooling from day one.

The Solution

TeachableHub is helping ML/DS teams to get models from PoC to production in no time by enabling them to:

- **Deploy in seconds** - Deploy your model instantly as an API and share it with the world. Your favorite frameworks are supported, as well as versioning, model validation, and more available out of the box. Zero Docker knowledge required!
- **Serve at scale** - Securely serve & instantly scale Teachables on our fully-managed serverless infrastructure. Forget about MLOps tasks, underutilized resources, and infra costs.
- **Collaborate effortlessly** - A centralized hub that brings teams closer to work through ML problems and learn from each other along the way. Custom workflows, ACLs & permissions, and more.
- **Monitor performance at 360°** - Monitor, manage, and control model usage and performance in production. Have the full picture of how your models perform in a sleek UI.
- **Use on any platform** - For each model, you get a fully documented & ready to use API you can easily connect with any web, mobile, commerce, or backend platform via our modern SDKs.
- **Integrate with no hassles** - TeachbleHub is a flexible solution and can easily be integrated with your existing tools and services.
- **Ensure security & privacy protection with zero maintenance** - Hardware and infrastructure concerns are long forgotten! TeachbleHub's fully-managed platform is secure, compliant, ready-to-use, and performance is closely monitored 24/7 by our experienced staff.

Who We Are?

CloudStrap is a solutions company building best-of-breed digital transformation products. Our team is passionate about simplifying cloud technologies and crafting modern solutions that lay a solid foundation for digital transformation at scale.

We have infrastructure on 4 continents and **our products are used by 700+ organizations across 94 countries to build and power apps accessed by more than 110M end-user devices worldwide**.

CloudStrap's products are trusted by the world's leading organizations such as Majid Al Futtaim, KORG, County of Los Angeles, Cirque Du Soleil, The United States Golf Association, and more.

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