EuroCC@Türkiye Success Story in Image Content Moderation

Machine Tutors
TUBITAK-ULAKBIM TRUBA HPC Center

machinetutors

TRUBA
Turkish Science e-Infrastructure

NCC Türkiye

SUCCESS STORY IN SOCIAL MEDIA (Turkey)

COMPANY Machine Tutors

- Provides machine learning consultancy and customized AI software development services.
- Empowers businesses all over the world by solving real-world problems.
- The company has two products; mtDATA, a data collection and annotation services platform, and mtAPI, SaaS AI solutions with pre-trained models, customization options, and scalable infrastructure.

THE PROBLEM

- Large-scale real-time image-based content moderation.
- The system is deployed to a production environment with tens of thousands of users browse the internet daily.

SUCCESS STORY DETAILS
HPC provider: TRUBA
Country: Turkey
Link:http://eurocc.truba.gov.tr/?page_id=5525&lang=en

THE HPC PROBLEM DOMAIN

- Artificial Intelligence (AI)

- The company needs to access many GPUs at the same time to run large batch size trainings in parallel and quickly.

THE SOLUTION

The company developed three main models:

1. The first model is a multi-label NSFW classifier
2. The second model is a one-stage body-based age & gender detection model.
3. The third one is a segmentation model.

These three models run in a pipeline via which the company can run various scenarios.

THE BENEFITS

- Run many experiments in parallel
- Run larger batch size trainings on newer GPUs
- Access many GPUs for hyperparameter tuning
- Gain a considerable competitive advantage in the global AI ecosystem considering the speed and the cost-efficiency.

Design inspiration NCC Austria

EURO

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