

# ModelPS:

## An Open-Source and Collaborative Model Edit Platform with Interactive Transfer Learning

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### Objective

Many applications are utilizing deep neural networks (DNNs) to provide intelligent services. However, due to frequent changes in the business requirements, developers often have to modify these DNNs, resulting in a massive cost in terms of monetary and time. To alleviate the issue, we propose a novel system, termed ModelPS (Model Photoshop), offering an interactive workspace for DNN editing.

### Methodology

Our system puts researchers and

#### Research & Develop Team



ML Research Scientist



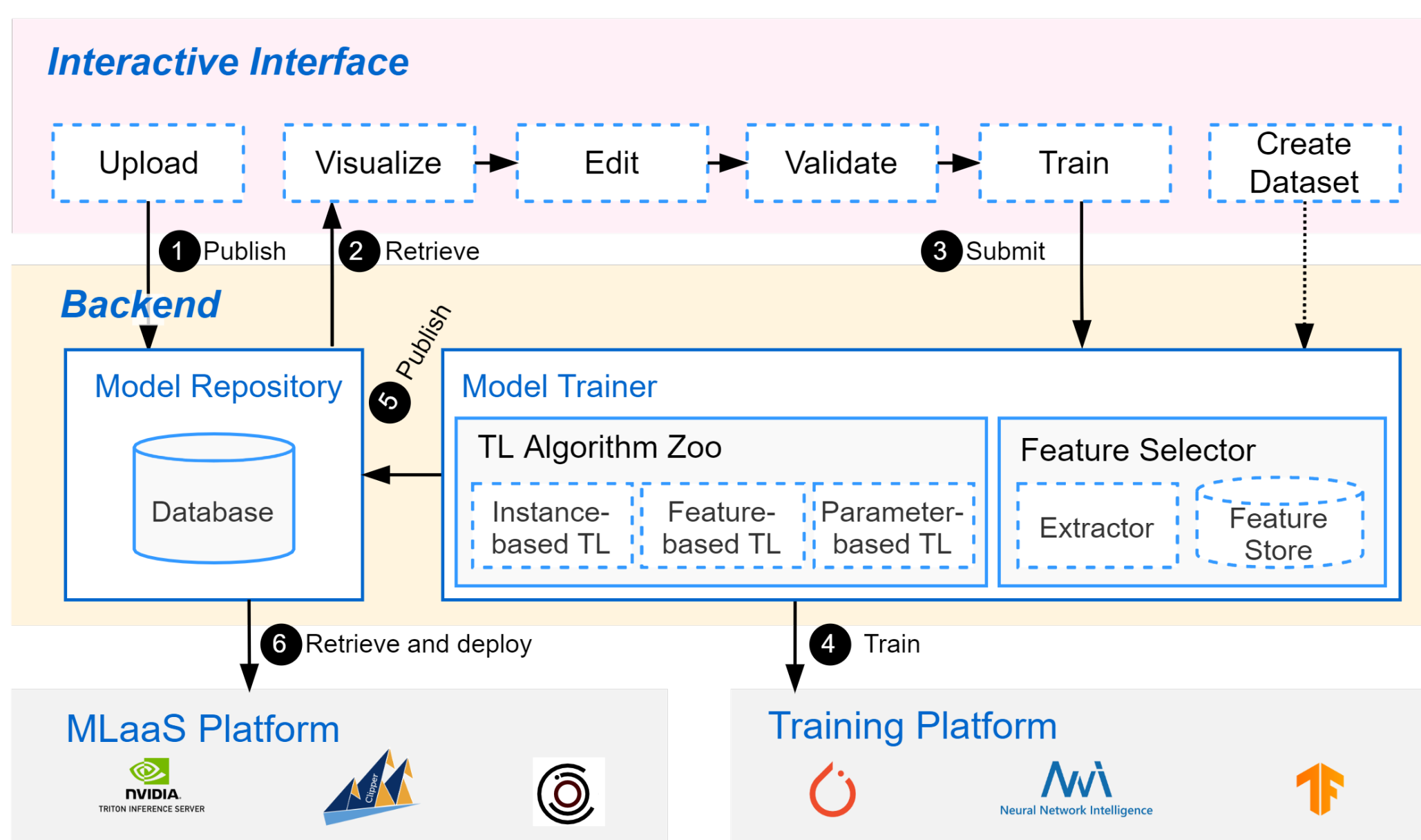
ML Engineer



Ops Engineer

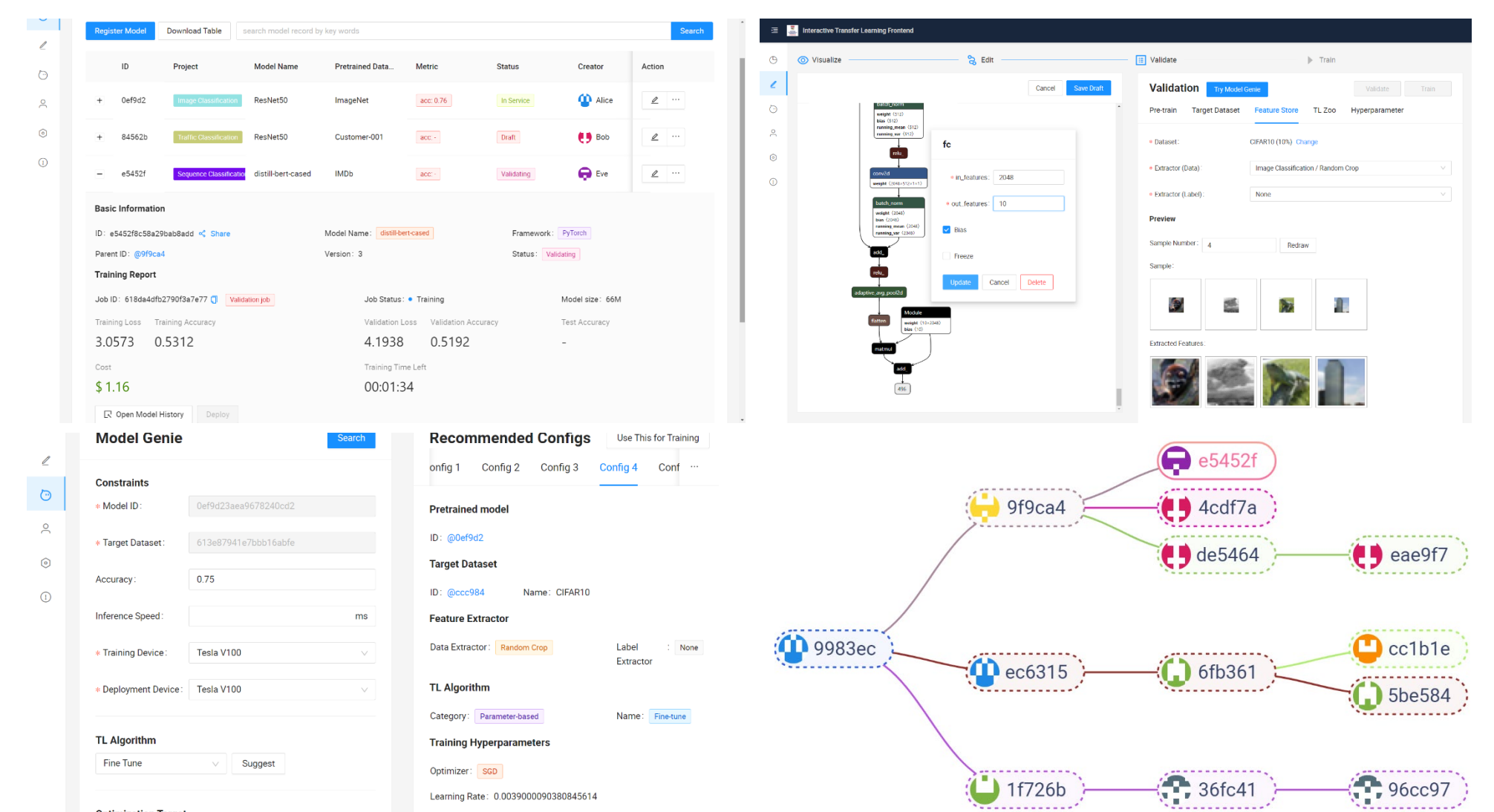


Data Engineer

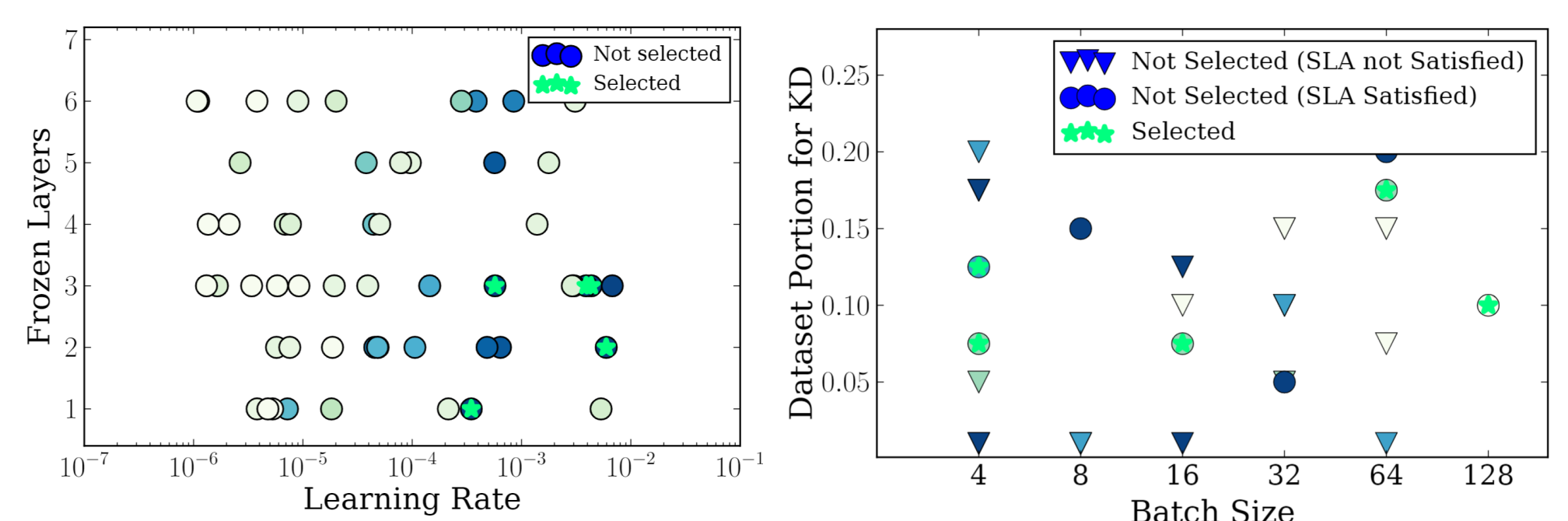


engineers in the same context of model editing with a collaborative interface for them to share, understand and improve DL models.

### Results



Web pages demonstrates data scientists and MLOps engineers cooperate with each other in building an AI product from a pre-trained model using the no-code ModelPS system.



Model Genie searches for better fine-tuning configurations, facilitating the model improvement process