

Model training & fine-tuning

Training and fine-tuning pipelines for domain-specific tasks. We connect dataset design, model adaptation, evaluation, and deployment preparation into a reproducible process with explicit quality and resource goals.

WHAT WE CAN DO

01

Dataset preparation

Review data quality, labeling, formatting, and train/evaluation splits for the intended task.

02

Training pipelines

Configure repeatable training, experiment tracking, checkpoints, and model-artifact management.

03

Targeted adaptation

Adapt a suitable base model through supervised fine-tuning or parameter-efficient approaches.

04

Evaluation & export

Compare with the base model, investigate failure cases, and prepare artifacts for the deployment target.

TECHNOLOGIES & WORKING AREAS

Supervised training / LoRA / PEFT / Dataset preparation / Evaluation / Model export / deployment

A CLEAR PATH TO HANDOVER.

WHAT YOU RECEIVE

- Dataset processing and training configuration
- Training or fine-tuning scripts and checkpoints
- Evaluation report against agreed baselines
- Exported model and inference integration notes
- Reproduction steps and data-assumption record

HOW THE WORK PROGRESSES

- 01 **Define adaptation goals**
Task, base model, data rights, and constraints.
- 02 **Prepare the evidence**
Dataset cleaning, splits, and evaluation cases.
- 03 **Train & compare**
Controlled experiments against the baseline.
- 04 **Export & hand over**
Model artifacts and reproducible instructions.

RELEVANT ENGINEERING FOUNDATIONS

UAV Human Detection System

Task-specific model training and quantized export for local inference.

Battery-state models

Training on prognostics data with deployment as compact C model artifacts.

TO SCOPE YOUR PROJECT

- / Task description and representative data
- / Preferred base model or selection constraints
- / Training compute and resource budget
- / Evaluation goals and deployment environment

LET'S DISCUSS YOUR PROJECT

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