



OAK DEFENSE

AI EW DECISION

Explainable AI for electronic warfare

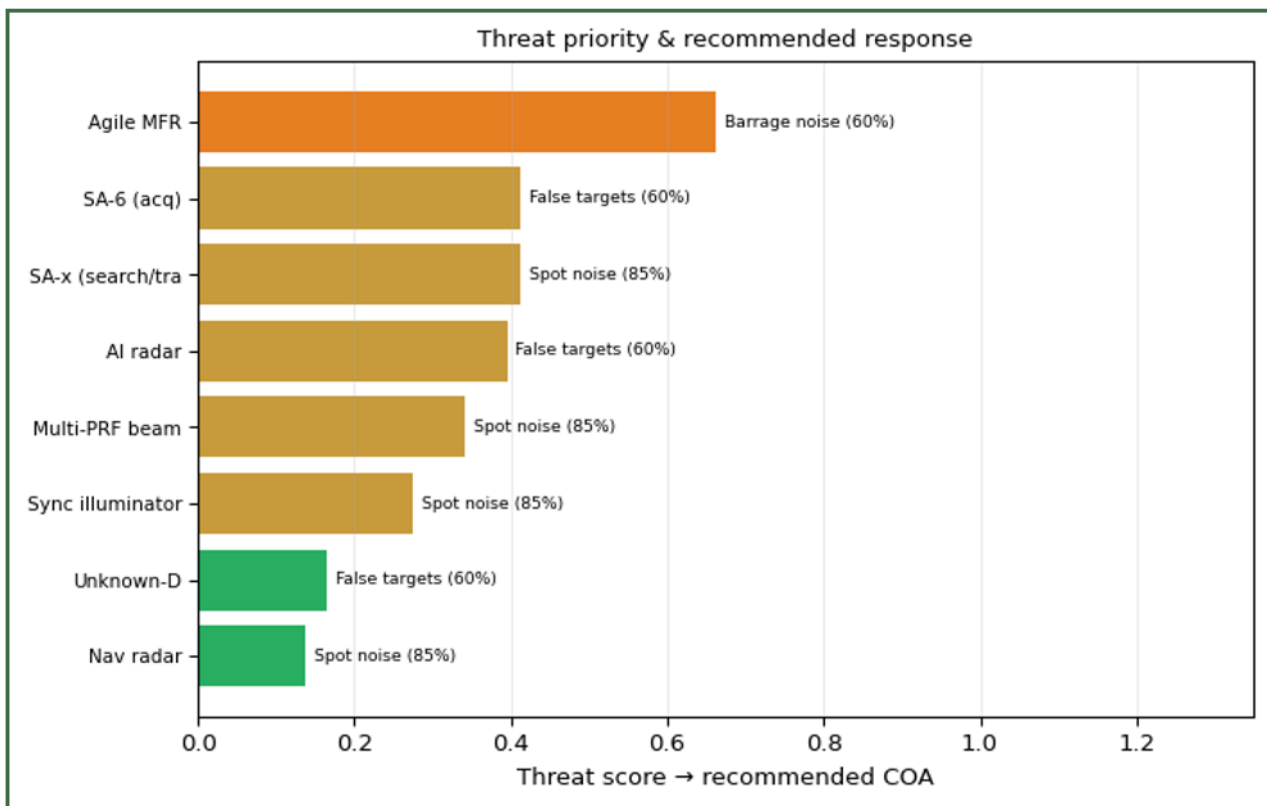
Classify · prioritise · recommend — and show its work

Grounded in open literature · trained on real data

Classification-ready · honest by design

Unclassified · representational · no exploit content

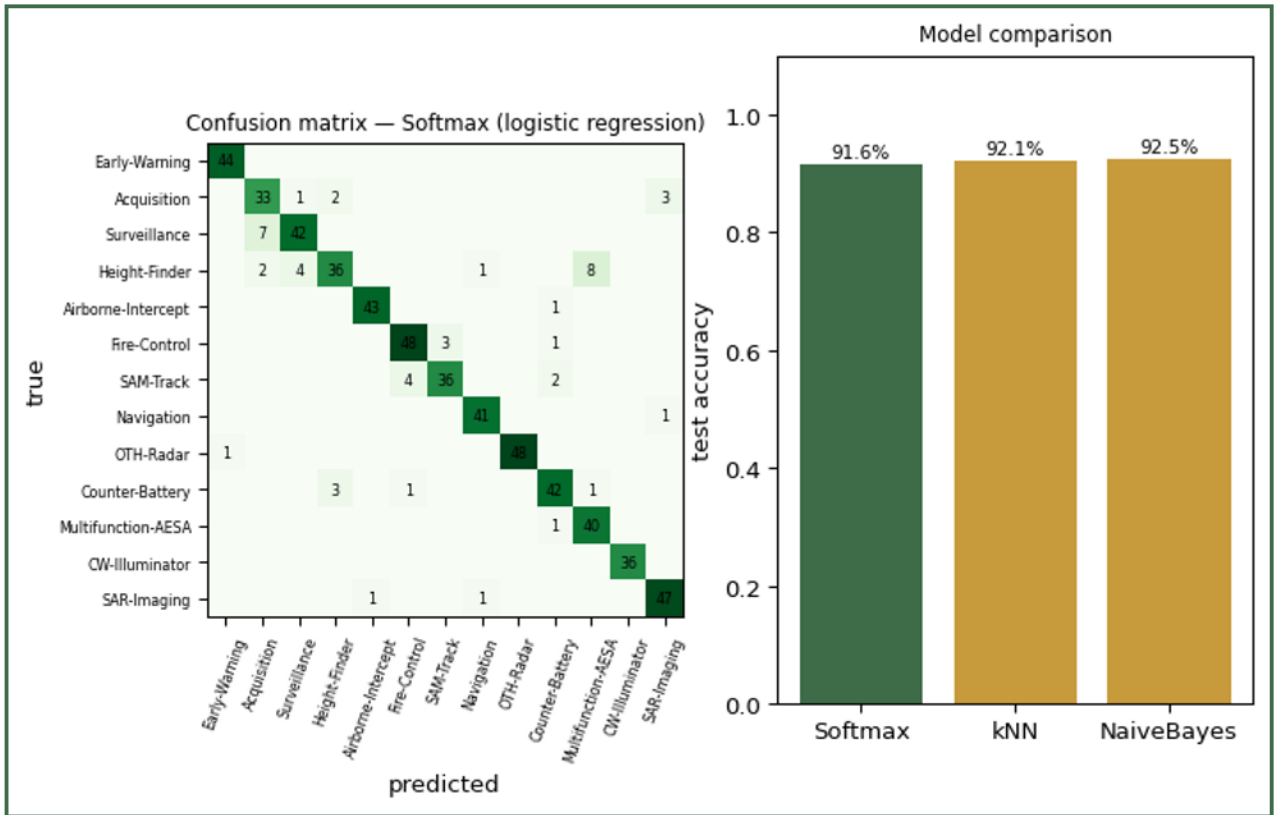
swipe 



An ML model classifies each emitter, scores threat & priority, and recommends an EW course of action with predicted effectiveness — with explainability and a published grounding + open-source named example per class.

AI Model Trainer

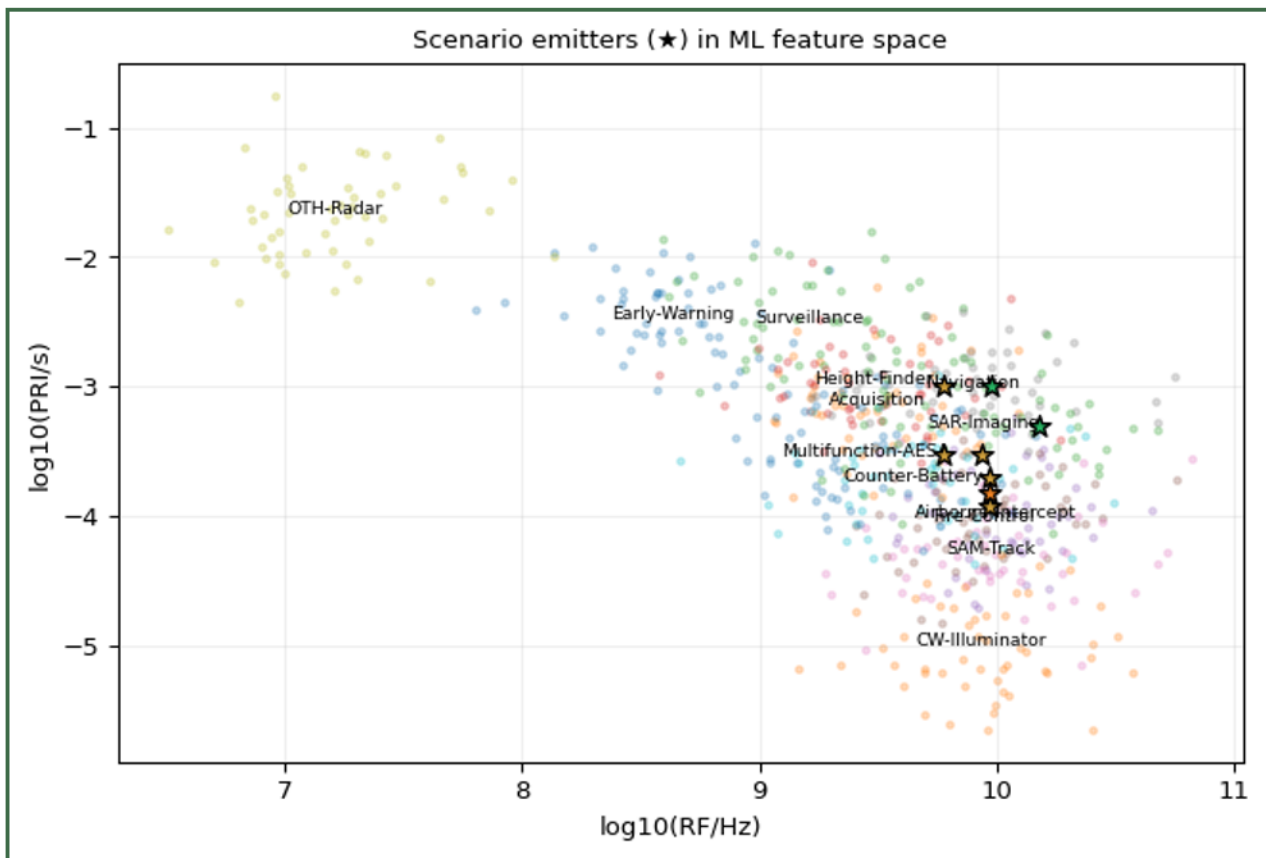
Train & benchmark on real data



Train and evaluate pure-numpy classifiers (softmax / kNN / naive-Bayes) — accuracy, confusion matrix, ROC — and benchmark on PUBLIC datasets: RadioML and RadChar. Transparent, offline.

AI EW Assistant

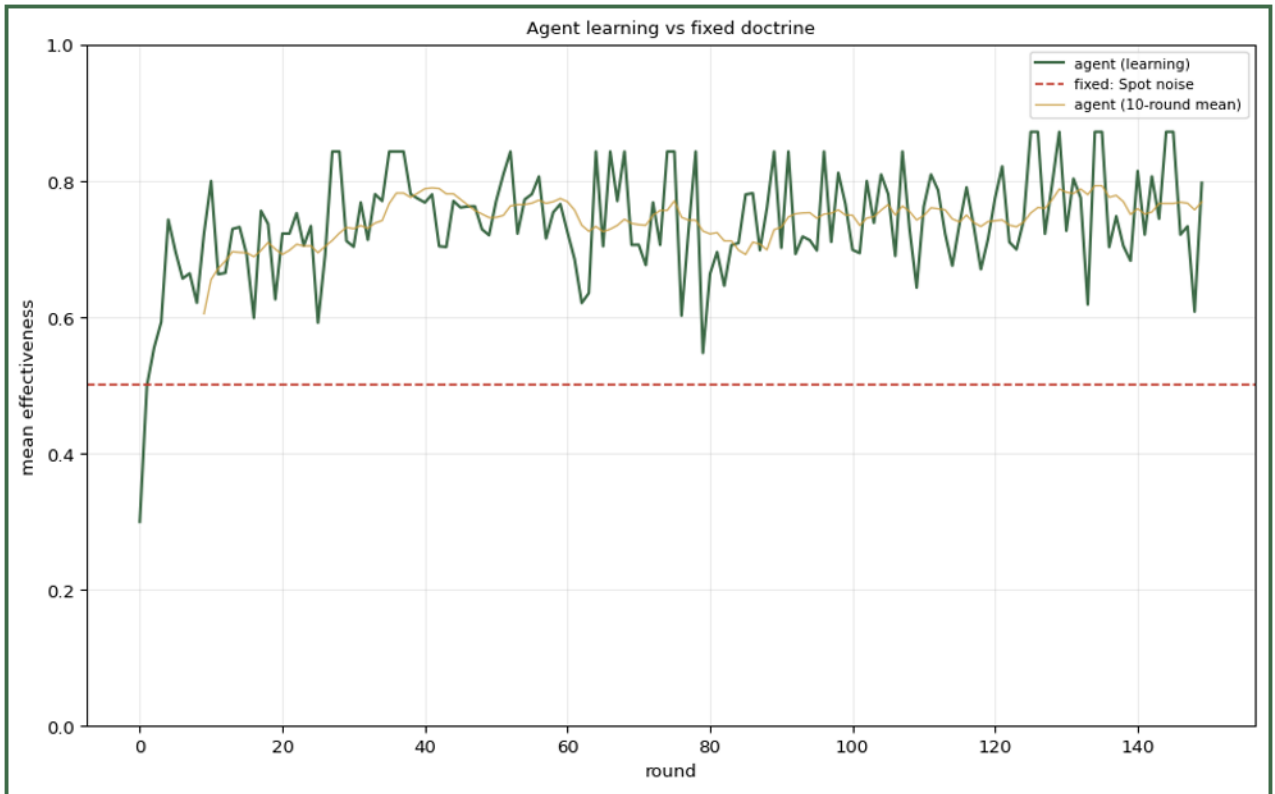
Ask in plain language



Natural-language Q&A over the scenario, answered from the suite's models. Knows an open named-system library across 8 markets, and cites its sources. Fully offline rule-based engine.

Cognitive-EW Agent

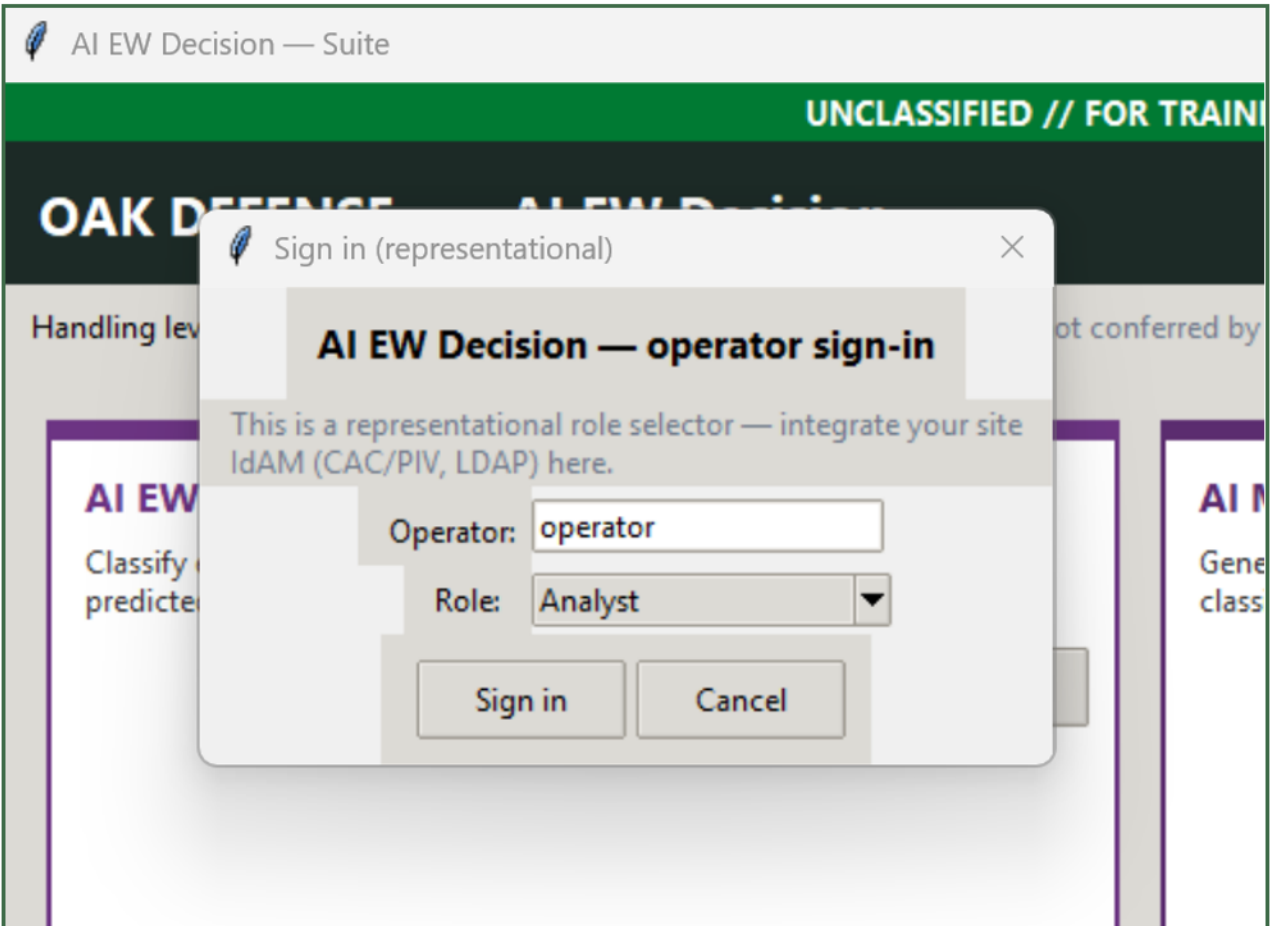
Learn the fight



A closed-loop agent that senses every emitter, learns which technique beats which emitter class, acts and adapts — out-performing a fixed doctrine once it has learned the threat picture.

Classification-ready

Field it controlled — with your data



Top & bottom marking banners (UNCLASSIFIED..TS//SCI), a role-based sign-in stub, audit log and bring-your-own data. The software DISPLAYS the handling level you assert — it never confers classification. Ships UNCLASSIFIED // FOR TRAINING.



Why it wins evaluations

□ **Honest by design**

Cited open sources, visible confidence and feature-level explainability — auditable, not a black box.

□ **Real-data proof**

Benchmarks the same models against public RadioML / RadChar datasets, in transparent pure-numpy.

□ **Breadth**

A 13-class emitter taxonomy + an open named-system library across 8 markets (Iran, Russia, China, USA, France, Sweden, Netherlands, Israel).

□ **Classification-ready**

Marking banners, role-based access, audit log and bring-your-own data — field it controlled, with your own authority.

□ **Unclassified & export-friendly**

No operational technique library, no classified parametrics, no exploit content.



Honest by design

explainable · cited · classification-ready

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Built on the OAK DEFENSE EW SUITE
Unclassified · no operational exploit content