FreeScopes AI I: AI & Machine Learning Training Module
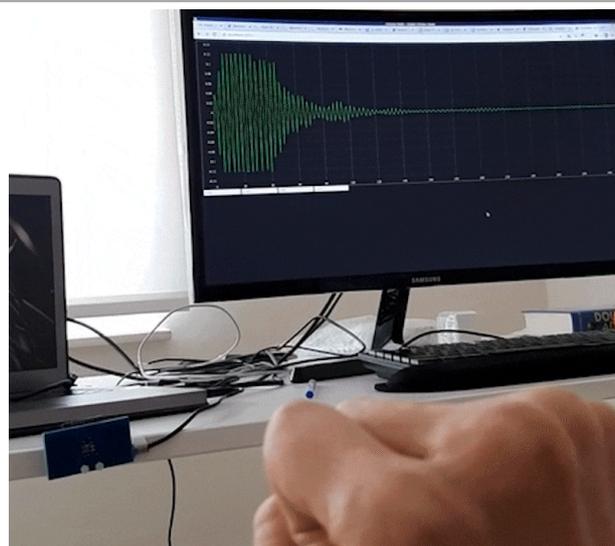
The FreeScopes AI I module is designed to provide a comprehensive training environment for Artificial Intelligence and Machine Learning applications, including image recognition. This module is part of the modular SkyRadar solution and seamlessly integrates with the Radar Control Center and Data Analysis Software.

The package includes a configurable FreeScopes block that can be added to the FreeScopes block diagrams, allowing students to conduct real-world AI experiments. It enables users to work through key stages of AI development, from data collection and preprocessing to model deployment and testing, all within the familiar FreeScopes environment.

Students can create and manage their own AI training projects, using live, simulated, or pre-recorded radar data to build and train neural networks. The system supports essential AI workflows, including dataset generation, labeling, model validation, and optimization, ensuring a thorough understanding of AI-driven radar applications.

This AI training module is ideal for students and instructors looking to explore the capabilities of AI within radar systems while providing the computational power necessary for model training and deployment.

NextGen Training Systems for Aviation Academies & Universities

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FEATURES

- Data Collection & Labeling
- Data Preprocessing
- Model Development
- Model Optimization and Testing
- Deployment and testing as a block in FreeScopes
- Conducting experiments with the configured and AI-trained FreeScopes block

PREREQUISITES

- 8 GHz Pulse Radar

EXTENSIONS

- Rotary Tripod (recommended)
- Cloud Server (recommended)
- FreeScopes Basic I
- FreeScopes Basic II
- FreeScopes ATC I
- FreeScopes ATC II
- SkySMC System Monitoring and Control
- SkySim Radar Simulator
- and many more

From Basic to AI-driven Sensing - SkyRadar Paves the Way

SkyRadar offers the world-wide most comprehensive range of training systems for digital signal processing