

Training on “Use of Artificial Intelligence Applications of Crop Classification in Agriculture: Python Training”; 14 – 18 Apr 2025; Ankara, Turkiye

In collaboration with Asian Productivity Organization (APO) and with experts from SUPARCO, a 05x days hands-on workshop was organized in Ankara, Turkiye focusing on the practical application of AI tools for crop classification. The five-day workshop offered a blend of theoretical knowledge and practical experience, focusing on key topics such as remote sensing, aerial data processing, vegetation indices, and crop classification using ML and DL techniques. Participants engaged with tools like QGIS and Python (libraries such as Scikit-learn, Numpy and GDAL etc.) and worked on Google Colab, a cloud-based platforms to implement AI models. Hands-on sessions involved building crop classifiers with both drone and satellite imagery, annotating datasets, and training AI models. Real-world case studies were demonstrated, including plant count for yield estimation using YOLO, pest prediction based on IoT data, and crop vigor analysis for variable-rate targeted spraying with drones. The workshop also encouraged knowledge exchange, with participants discussing their ongoing research and practical applications.

