Artificial Intelligence has a profound impact in today’s world. With Deep Learning and Machine Learning at the forefront of fast evolving technology, the expectation for its application in market analysis is also gaining momentum. This is evidenced by traders’ growing reliance on computer algorithms to learn from economic data for profit opportunities. This seminar will give an introductory overview of these technologies and elaborate on some concrete examples in the realm of commodity market intelligence, such as FAO-AMIS sentiment-based market prediction and crop forecasting using satellite imagery. A number of other potential Machine Learning applications for the work of AMIS will also be put forward for discussion.