**XGBOOST Your Digital Ag Research**

In this workshop we will explore the new and promising Machine Learning paradigm of XGBOOST on an information rich agriculture-based dataset. Our goal will be to predict various agronomic indices, including yield and vigor through a python-based code that compares multiple models, with an emphasis on the appropriate use and optimization of those models. This workshop will be using google collab as its primary delivery platform, but there will be optional videos available to the audience that will enable them to port the workshop to their own python-based platforms. No advanced coding experience nor knowledge of the specific models used is required, and all data will be provided, but you will need to bring your own laptops. We encourage the participants to ask questions, and a Github repository will be set up for all FAQ, codes, and recordings.

Speakers: Thanos Gentimis, Dina Dinh, Leticia Santos