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(57) Abstract :
The disclosed embodiments illustrate a system (100) and method (300) to predict crop yield, The system includes a first set of sensors attached to a pre-defined agricultural land to acquire one or more soil attributes in the pre-defined agricultural land, and a second set of sensors to acquire one or more environmental attributes of the pre-defined agricultural land. The acquired one or more soil attributes and the one or more environmental attributes are processed by the learning engine, and upon processing, soil information and environment information are determined, which are transmitted to a computing device. Further, crop yield prediction is evaluated from the received soil information and environment information by a learning engine by applying techniques such as kernel k-means, classification and regression, non-probabilistic binary linear classifier, bootstrap aggregative classifier, and decision tree model.

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