**Prediction** **of Disease in the Poultry Industry**

***Abstract*—** In the modern era of Information and Technology, gadgets and electronic devices are now inevitable in our day-to-day life. Technology helps us to do our routine things in a well-organized manner and move forward at ease. In this era, we do have a miniature computer (smartphone) carrying in our pockets, getting not only connected with others but also with the internet giving us a plethora of options and information at our fingertips. Modern technologies *viz.* Artificial Intelligence (AI), Robots, Sensors devices, Drones, Augmented Reality, Internet of Things (IoT), and mobile apps, etc., could be put into use to exercise smart livestock farming/precision farming. Poultry producers face several key issues involved with such industry-level production like pressure on production cost, animal welfare, lack of sufficient skilled and trained labor, escalating antimicrobial resistance, environmental impact, etc. AI may help in addressing many challenges currently faced in the poultry industry. We use a few qualities to evaluate our analysis regarding poultry illness and this attribute is one of the key items of the following disease. Perhaps we implement eleven machine classifiers to measure analysis by employing the following technologies, Logistic Regression Classifier, Naive Bayes Classifier, Multilayer Classifier, Stochastic Gradient Classifier, r Random Forest classifier, Bagging Classifier, Decision Tree Classifier, K Nearest Neighbor Classifier, XGB Classifier, AdaBoost Classifier & Gradient Boosting Classifier. The method we employed here gives maximum precision. Decision Tree Classifier has the best outcome yet*.*

***Keywords— Robots***

***Sensors devices***

***environmental impact***

***Poultry Disease, detection***

