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| **Abstract**  Machine learning is about prediction on unseen data or testing data and a set of algorithms are required to perform task on machine learning. There are three types of machine learning are called as Supervised, Unsupervised and Reinforcement learning.  We have taken the iris dataset and used K-Nearest Neighbors (KNN) classification Algorithm. Our purpose is build the model that is able to automatically recognize the iris species. Tools used for this in paper are Numpy, Pandas, Matplotlib and machine learning library.    **Problem statement**  Machine learning is about prediction on unseen data or testing data and a set of algorithms are required to perform task on machine learning. There are three types of machine learning are called as Supervised, Unsupervised and Reinforcement learning. In this paper we have worked on supervised learning.  We have taken the iris dataset and used K-Nearest Neighbors (KNN) classification Algorithm. Our purpose is build the model that is able to automatically recognize the iris species. Tools used for this in paper are Numpy, Pandas, Matplotlib and machine learning library.  **Approach**  **The approach we will be using for this Python project is as follows :**  In this project we mainly focus on on how KNN (K-Nearest Neighbors) algorithm works and implementation of KNN on iris data set and analysis of output.     1. **Load the data** 2. **Analyse and visualize the dataset** 3. **Model training.** 4. **Model Evaluation.** 5. **Testing the model.**   We used Anaconda software (Jupyter Notebook) to build the model. Initially we load the iris dataset from pandas library.  The KNN classifier takes the training data as an input and outputs the class to which an object is expected to belong to.  This object is assigned to the class to which the majority of its neighbouring instances belong. |