**Random Forest Intuition**

* **Ensemble modeling =** take multiple ML algorithms together + put them together to create a large, single ML algorithm that leverages its individual components (could be all the same or different)
* **Random Forest:**
* Pick K random DP’s from training 🡺 Build decision trees for those K DP’s 🡺 Choose number of trees to build **NTree** + repeat prior 2 steps 🡺 For new DP’s, have each tree predict its label + assign DP to label w/ majority vote
* Each tree is built on a randomly-subset of training data
* Although numerous tress may not be ideal, all together on average they can perform very well
* Leveraging the “power of the crowd” to try + get rid of errors/uncertainties in the algorithms