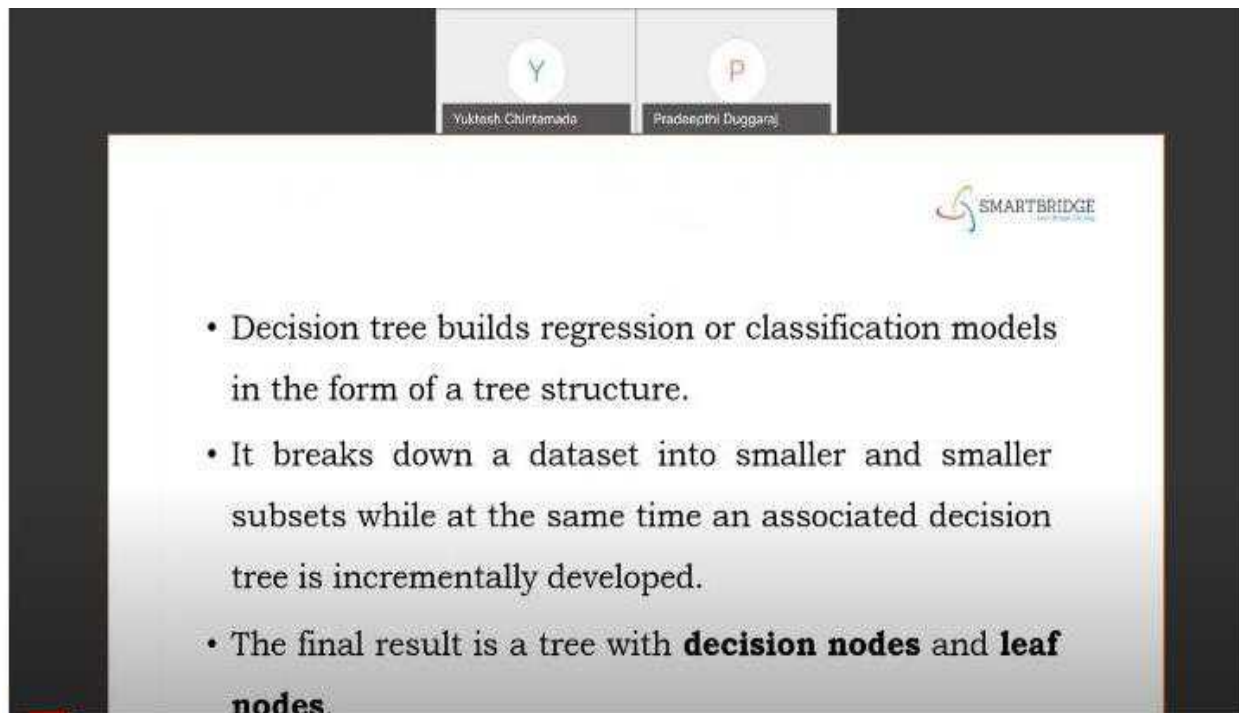


IBM Series 6 Workshop on “Machine Learning Using Python – Decision Tree and Random Forest Classification” on 1st Oct 2020

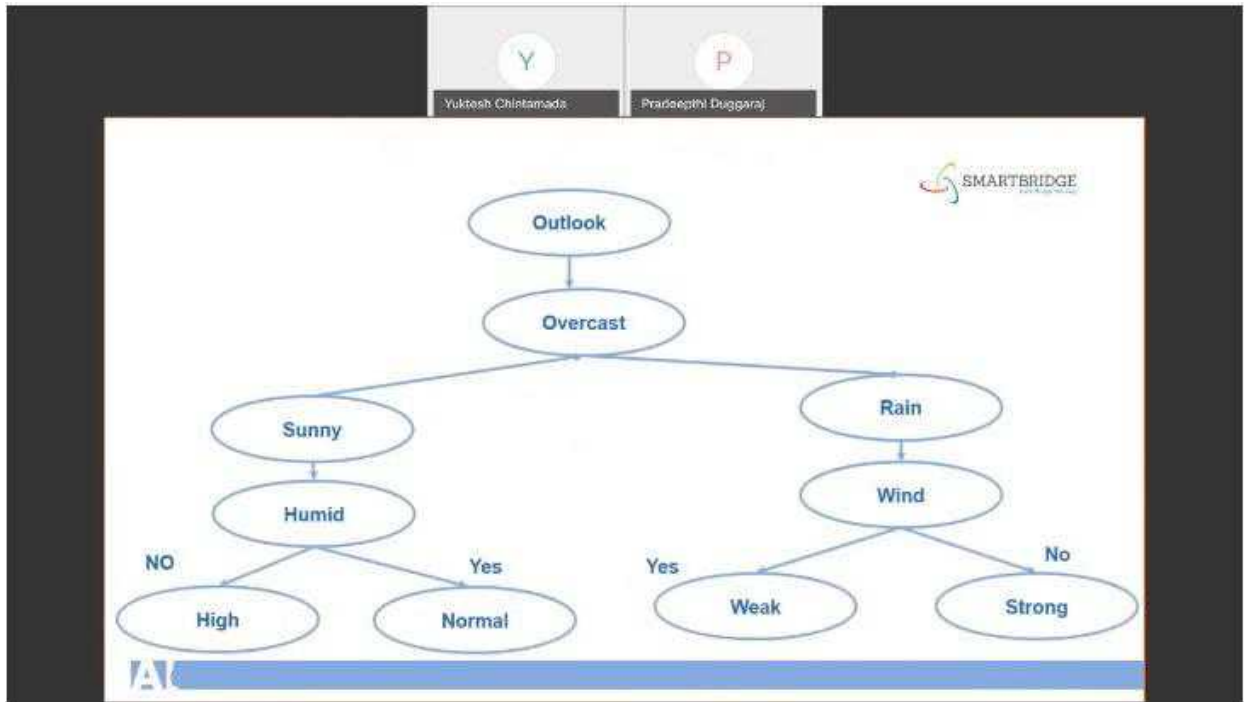
This workshop was conducted by IBM to enlighten the students on how to use python for Machine learning. This was the sixth session of the workshop from the series of a total number of six sessions of the workshop named “Machine Learning with Python”. And this session was attended by students and faculties of various institutions across the country. The session started with explanation of Decision tree, a type of model used for both classification and regression. A random forest is simply a collection of decision trees whose results are aggregated into one final result. Their ability to limit over fitting without substantially increasing error due to bias is why they are such powerful models. One way Random Forests reduce variances by training on different samples of the data. Later the speaker gave idea about how to do projects in machine learning and sources to get projects. Finally the session concluded with question and answer session.



The image shows a screenshot of a presentation slide. At the top, there are two small video thumbnails. The left one shows a person with the letter 'Y' and the name 'Yuktash Chintamada'. The right one shows a person with the letter 'P' and the name 'Pradheepthi Duggaraj'. Below these is a large white slide with a black border. In the top right corner of the slide is the 'SMARTBRIDGE' logo. The slide contains three bullet points:

- Decision tree builds regression or classification models in the form of a tree structure.
- It breaks down a dataset into smaller and smaller subsets while at the same time an associated decision tree is incrementally developed.
- The final result is a tree with **decision nodes** and **leaf nodes**.

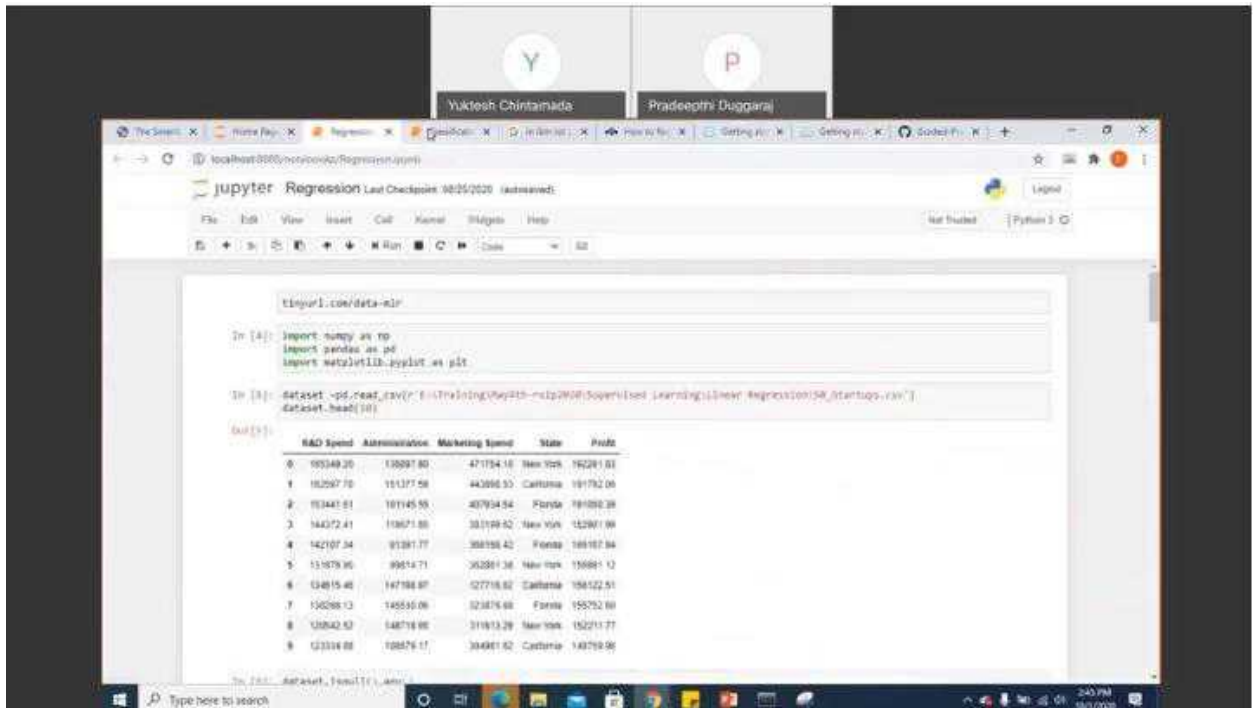
Pic1: Introduction to the topic decision tree



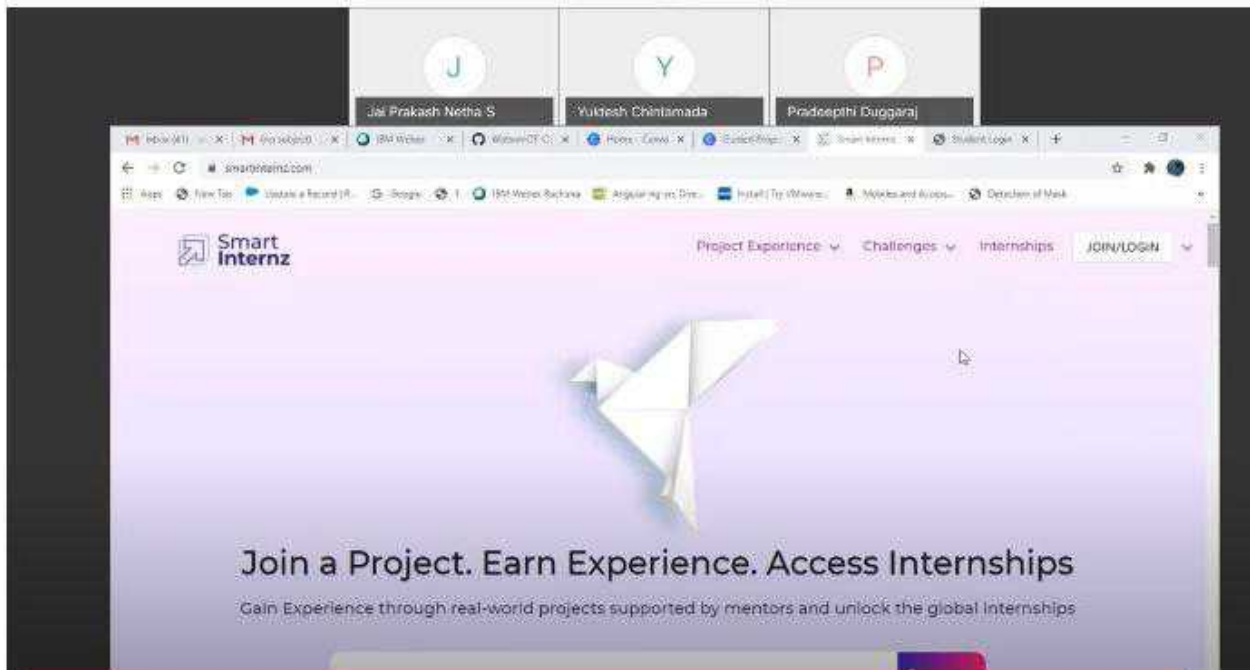
Pic2: Decision Tree construction



Pic3. Random Forest Tree explanation



Pic4. Python Implementation for Random forest



Pic5. Internship opportunities in Machine learning