

Course 1: Introduction to Data Analytics

Project Title: J P Morgan classification for legal documents

By considering the time taken by Lawyers and loan officers by validating the contracts, to get error free from loan-servicing mistakes done by the human, credit-default swaps J P Morgan introduces COIN- a new software to solve this kind of problem which a human takes 360,000 hrs of time in a year to validate the contracts this AI the new software completed within a second.

Business Understanding:

- **Objective:** To reduce work of time for lawyers and loan officers to validate the contracts. Removing useless contracts that are increased these days.
- **Accessing current situation:** The current situation while solving the contracts is human-errors made by humans so to reduce this type of mistakes considering business process.
- **Project plan:** Designing a new software which consumes the time and gives error-free results at any kind of professional issues.

Data Understanding:

- **Gathering initial data:** Collecting the data of time spend on each contract by lawyers. The special categories of cases where it takes more time to solve.
- **Describing data:** Arranging the collected data into rows, columns in table that a way to understand by a software to explore the data.
- **Exploring the data:** Analysing the kind of data and providing respective data types(int, var, etc,...).

Data Preparation:

- **Cleaning:** After arranging the data, clean the data as transforming raw data into a suitable format model.

- **Formatting:** Formatting the data with no-duplicates to ensure while formatting the data we need to make sure of arranging the data in the way of modelling.

Modelling:

- **Connecting data:** Observing the same record in our table after there is no duplicates then connect them into one single framework so that the place will reduce.
- **Initializing data:** To make the records of data to get easy evaluation arrange them to get the data ready for testing.

Evaluation:

- **Testing:** Testing the data that we had come through and making the new software to make the reduction of time by humans and error-free is possible.
- **Reviewing:** The one last step for evaluating the process and make sure if any existing data is involved if everything that came through is good enough for deployment then proceed with next step.

Deployment:

Deployment is the final step where software is moved into the user's environment, allowing real-world usage and feedback. By collecting contracts and ensuring the software is aware of them, this process can minimize time and errors, leading to the best results.