PROJECT DESIGN PHASE I
SOLUTION ARCHITECDTURE

DATE	**01 OCT 2022**
TEAM ID	**PNT2022TMID24528**
PROJECT NAME	DEVELOPING THE FLIGHT DELAY PREDICTING MODEL USING MACHINE LEARNING.
MAXIMUM MARK	**4 marks**

ARCHITECTURE WORKFLOW:

USER VIEW:

1.User can fill the flight details in the user Interface.

2.Entered details were send to the classifier model developed through the IBM Watson.

3.The model that predicts the estimated time of arrival of the particular flight delay to the User Interface.

MODEL VIEW:

1. Load data – first should load the data set for the flight delay, after uploading the data set is displayed in the Data section.

Step 2 – Preprocess the data

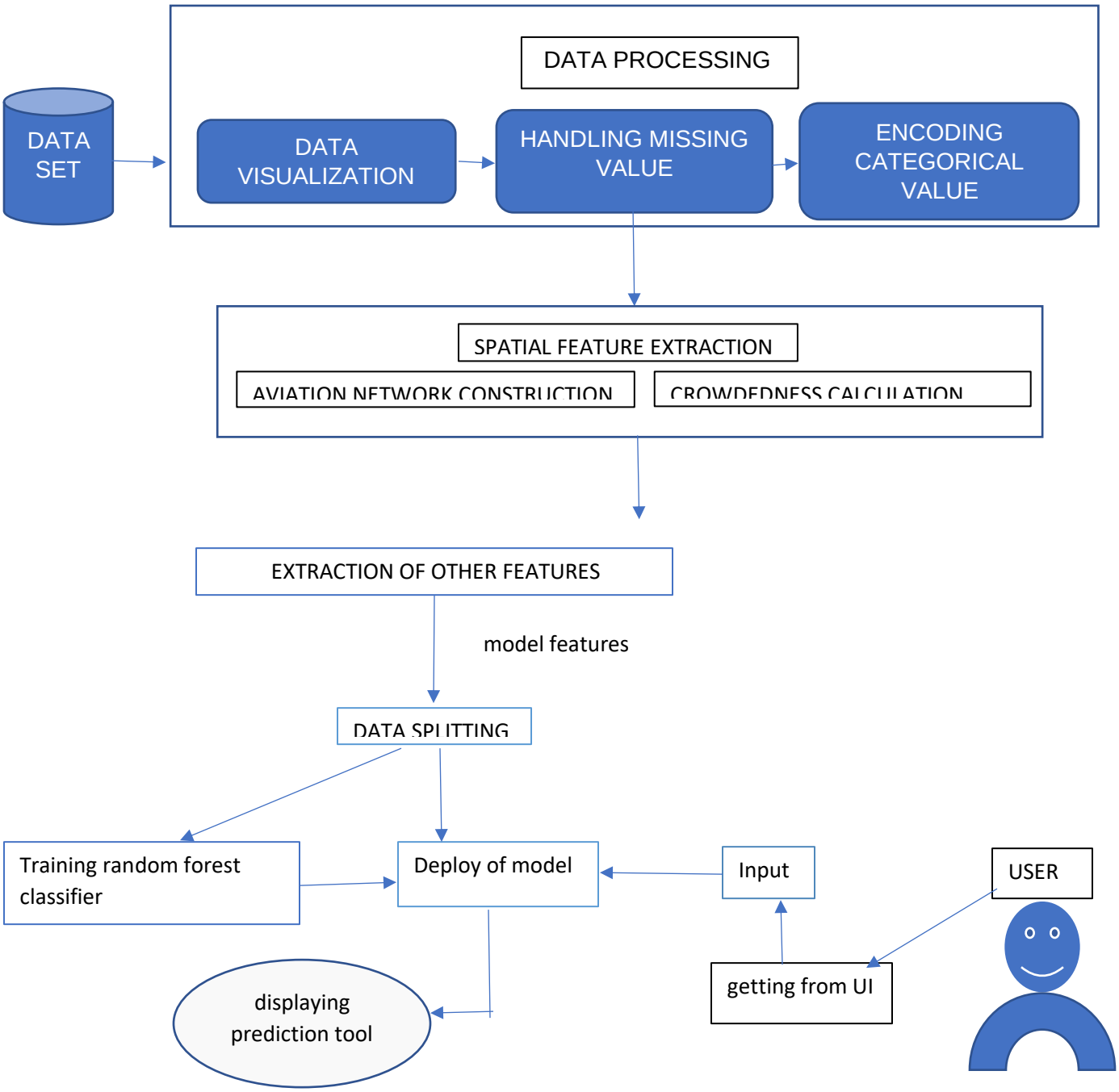
Step 3 – Visualize data

Step 4 – Auto AI models

Step 5 – Assess model performance

Step 6 – Deploy model

Step 7 – Use model for inference


DATA PROCESSING
DATA SET
DATA VISUALIZATION
HANDLING MISSING VALUE
ENCODING CATEGORICAL VALUE
SPATIAL FEATURE EXTRACTION
AVIATION NETWORK CONSTRUCTION
CROWDEDNESS CALCULATION
EXTRACTION OF OTHER FEATURES
model features
DATA SPLITTING
Training random forest classifier
Deploy of model
Input
USER
displaying prediction tool
getting from UI