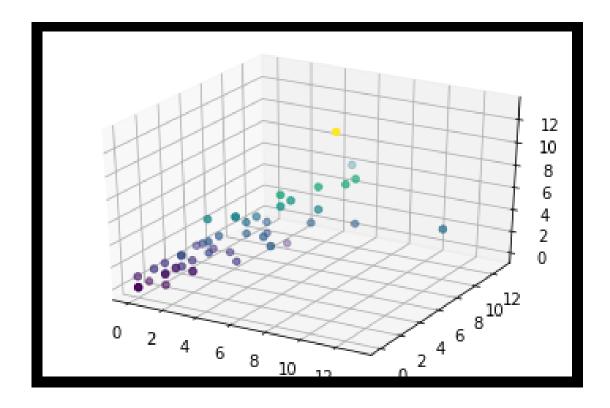
Prediction Method – pattern recognition

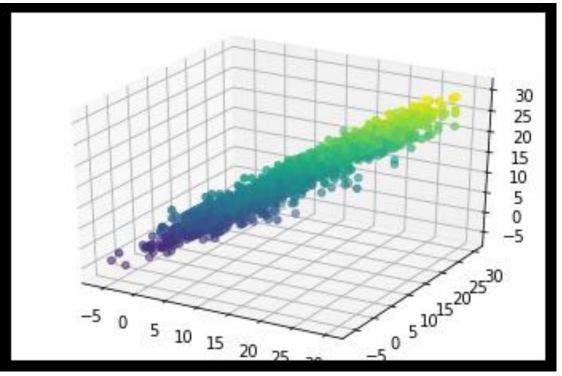
The weather information for the previous seven days were used to predict the weather for the current day. The AI was trained using five years period .

Artificial intelligence Algorithm : KNeighborsClassifier

Data population: more than 1800 days (5 years)

Libraries used: pandas, numpy, datetime, sklearn.neighbors.





Extract historical data

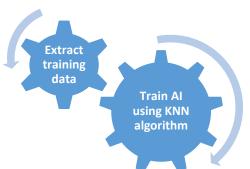
Database

- File name : dataexport_20200921
- Description: contains weather data for the past 5 years in base(up to date)

Extract weather data for the last 7 days

Artificial intelligence

- File name : Al
- Description: extract and prepare training data from the data base, import predication algorithm, Train Al and return Al



Import trained KNN algorithms

Input.py Interface.py

Weather_predicition.py

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Call weather predication model

Weather Predication

- File name : class predict.py
- Description :
 - initiate an object that can predict weather
 - Extract weather data for the last 7 days
 - Run prediction and return temperature, rain, cloud.