Credit Card Fraud Prediction

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1. INTRODUCTION

1.1 Overview

The project Main theme is the dectection of fraudulent transactions in order to reduce monetary loss and risk of migitaion.

1.2 Purpose

In this Project we are going to build a web application throw wich we are goining to input data so it can calculate the fraud risk throw a model that uses auto ai and give us the result.

2. Literature Survey:

2.1 Existing problem

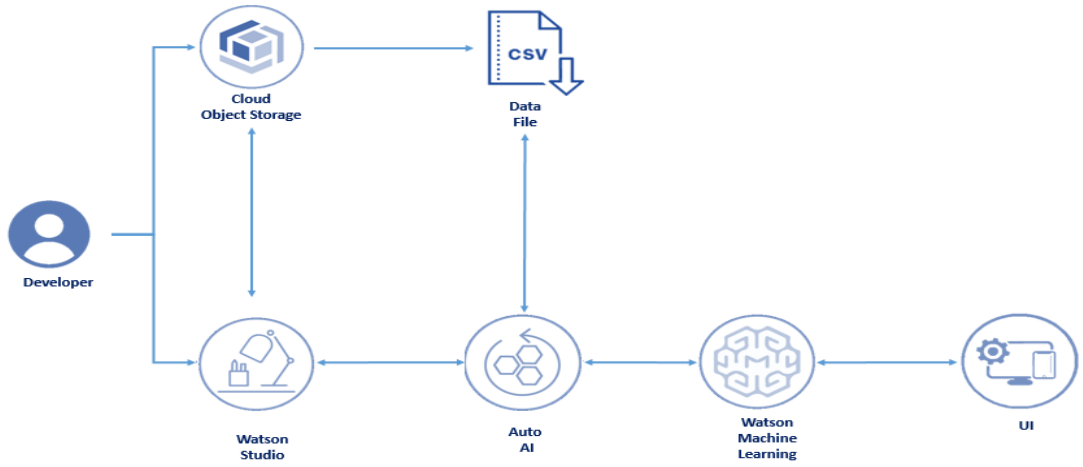
Using Machine learning algorithms by through writing lines of code and searching for suitable labraries and methods to use and then training the model can take too much time .

2.2 Proposed solution

Using an Auto AI model can reduce the time we passed over preparing the model from several days to several hours .Using Auto Ai you only need to afford the data and all the other work is automated and you finally get your model ready to be deployed.You create a model from a data set that includes the gender, married, dependents, education, self employed, applicant income, co-applicant income, loan amount, loan term, credit history, housing and locality.

3.THEORITICAL ANALYSIS:

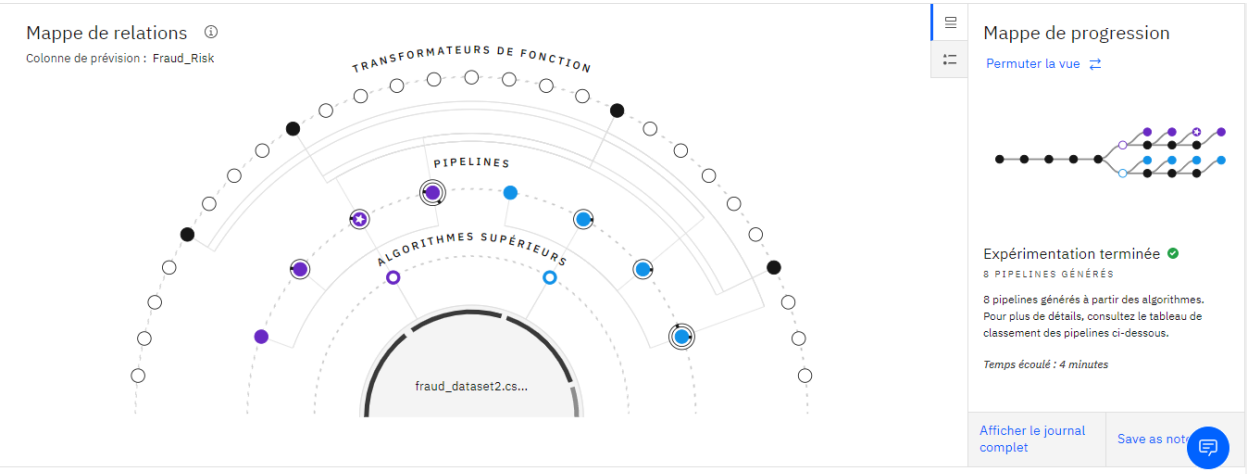
3.1 Block diagram



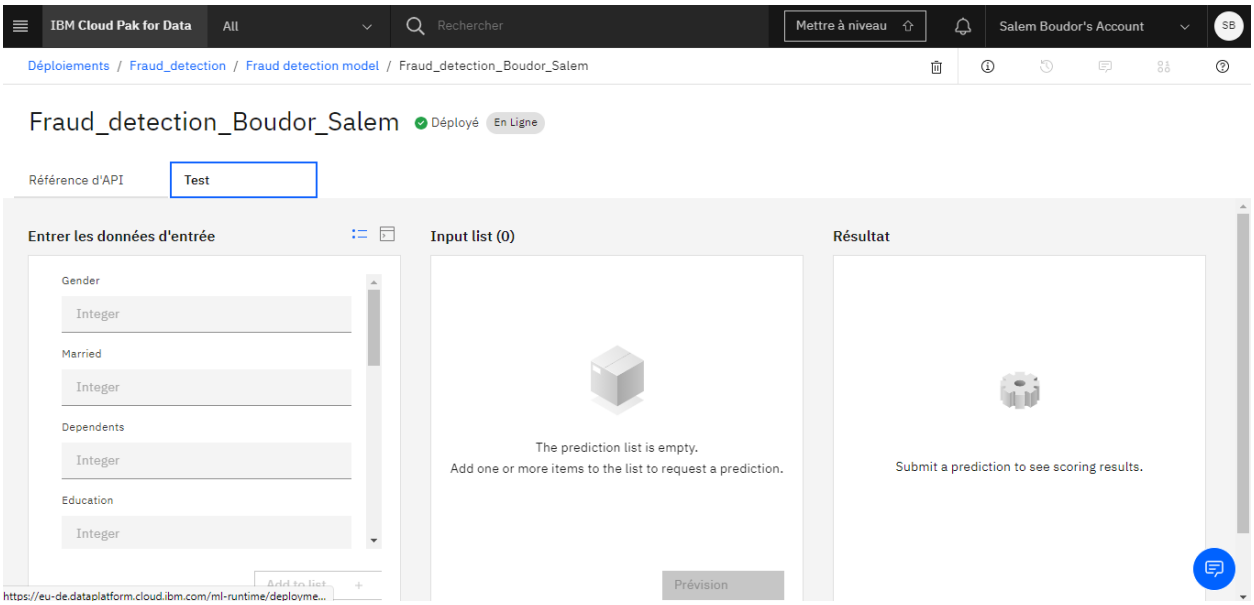
3.2 Hardware / Software designing

1. IBM Watson Studio
2. IBM Watson Machine Learning
3. Node-RED
4. IBM Cloud Object Storage

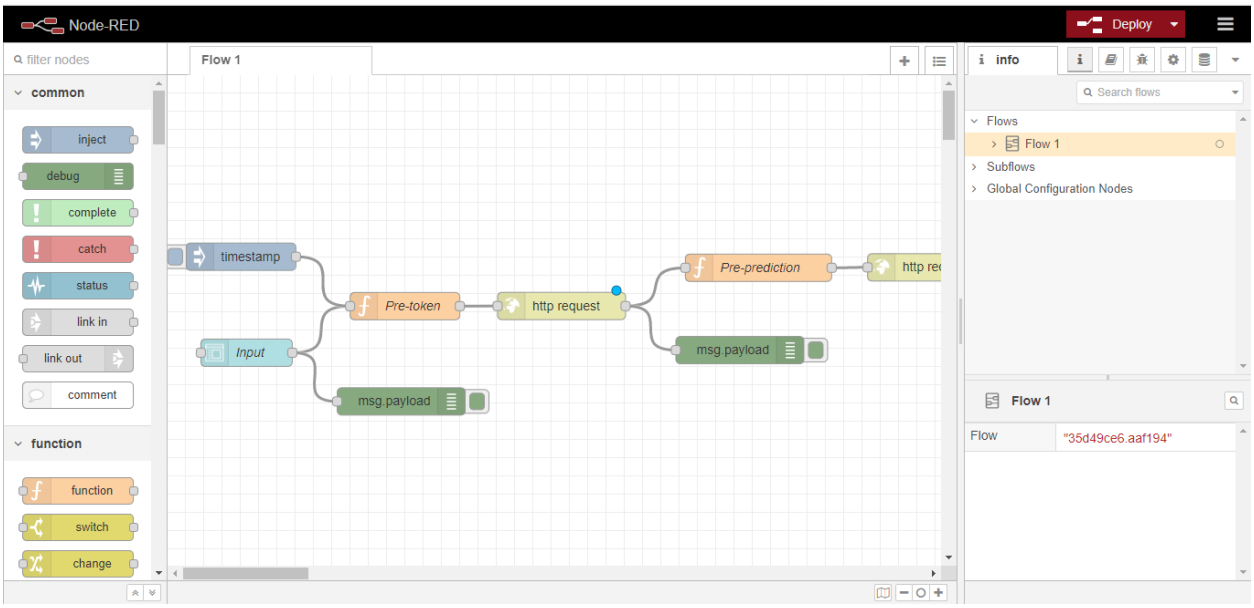
4.EXPERIMENTAL INVESTIGATIONS



Credit Card Fraud Prediction

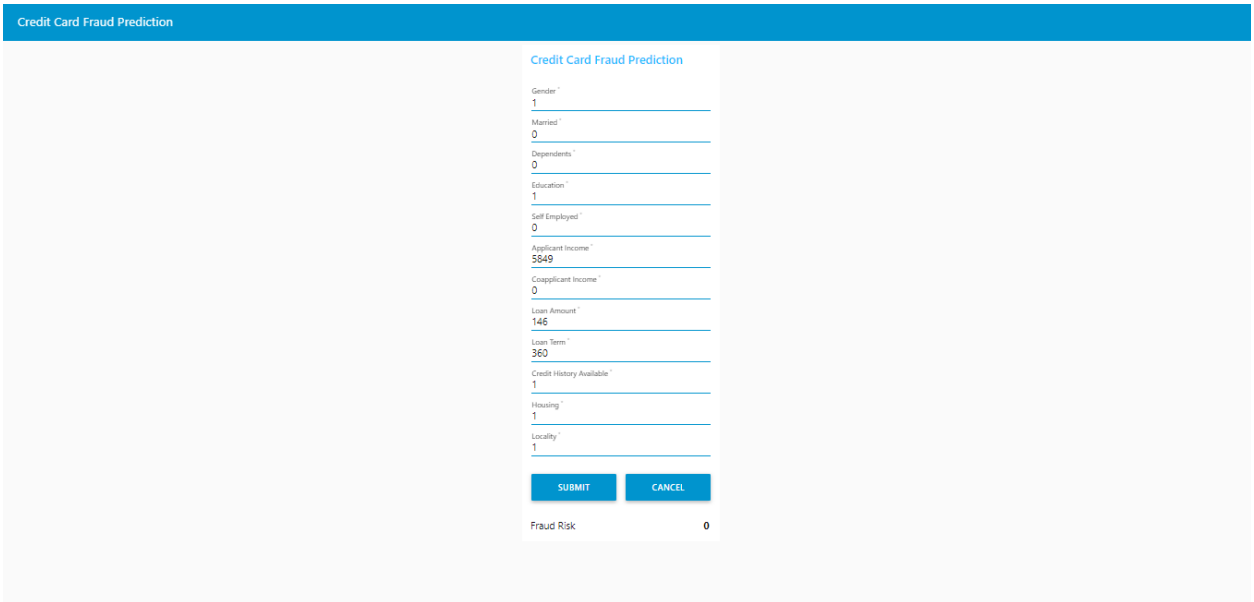


5-Node-Red Connection:



6-Result:

Credit Card Fraud Prediction



7-ADVANTAGES & DISADVANTAGES

- **Advantages:**

  - Fast model selection (top performing models only)
  -Start quickly (Experimentation, evaluation, deployment
  -Better AI Lifecycle management (Consistency, Repeatability of End-to-End ml and AI development

- **Disadvantages:**

  -maintenance
  -doesn't process structured data directly
  -Increasing rate of data, with limited resources

8-Application

-Financial apps
-Retail
-Legal

8-Conclusion

This project focuses on predicting fraud in transactions, this

can reduce monetary loss and risk mitigation.

9-Future Scope:

Scale to deep learning in order to get more precise results while analysing the data

10-Bibliography

https://smartinternz.com/Student/project/8913#

11-Appendix

node red interface:

Node-RED : node-red-rvmck-2021-02-24.eu-gb.mybluemix.net

github link:

Upload files · smartinternz02/SPS-8913-Credit-Card-Fraud-Prediction-using-IBM-Auto-AI (github.com)

Video link:

https://drive.google.com/drive/folders/0BwAjcVajalgHfjl2RzM2YnBDeEFYdTRuQnM4aTZVV0ctaHY1cVA3N01UYWFiaGkwTnBlX3M?usp=sharing