***Kinga plik requairments.txt musisz zmienic tak jak umnie by nie bylo bledow uMarcina jest tak samo ja po zmianie nie mialem tylu bledow.***

***Main.py***

***Komenda “***

***python main.py***

***Error”***

Traceback (most recent call last):

File "C:\Project\myProject\DataScienceGroupProject\KINIAKA\main.py", line 10, in <module>

from \_tmp\_notebook\_code import model, scaler

File "C:\Project\myProject\DataScienceGroupProject\KINIAKA\\_tmp\_notebook\_code.py", line 199,

in <module>

RFC\_cross\_val\_scores = cross\_val\_score(model, X\_train, y\_train, cv=5, scoring='accuracy')

^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

File "C:\Project\myProject\.venv\Lib\site-packages\sklearn\utils\\_param\_validation.py", line

213, in wrapper

return func(\*args, \*\*kwargs)

^^^^^^^^^^^^^^^^^^^^^

File "C:\Project\myProject\.venv\Lib\site-packages\sklearn\model\_selection\\_validation.py", line 712, in cross\_val\_score

cv\_results = cross\_validate(

^^^^^^^^^^^^^^^

File "C:\Project\myProject\.venv\Lib\site-packages\sklearn\utils\\_param\_validation.py", line

213, in wrapper

return func(\*args, \*\*kwargs)

^^^^^^^^^^^^^^^^^^^^^

File "C:\Project\myProject\.venv\Lib\site-packages\sklearn\model\_selection\\_validation.py", line 423, in cross\_validate

results = parallel(

^^^^^^^^^

File "C:\Project\myProject\.venv\Lib\site-packages\sklearn\utils\parallel.py", line 74, in \_\_call\_\_

return super().\_\_call\_\_(iterable\_with\_config)

^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

File "C:\Project\myProject\.venv\Lib\site-packages\joblib\parallel.py", line 1918, in \_\_call\_\_

return output if self.return\_generator else list(output)

^^^^^^^^^^^^

File "C:\Project\myProject\.venv\Lib\site-packages\joblib\parallel.py", line 1847, in \_get\_sequential\_output

res = func(\*args, \*\*kwargs)

^^^^^^^^^^^^^^^^^^^^^

File "C:\Project\myProject\.venv\Lib\site-packages\sklearn\utils\parallel.py", line 136, in \_\_call\_\_

return self.function(\*args, \*\*kwargs)

^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

File "C:\Project\myProject\.venv\Lib\site-packages\sklearn\model\_selection\\_validation.py", line 888, in \_fit\_and\_score

estimator.fit(X\_train, y\_train, \*\*fit\_params)

File "C:\Project\myProject\.venv\Lib\site-packages\sklearn\base.py", line 1473, in wrapper

return fit\_method(estimator, \*args, \*\*kwargs)

^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

File "C:\Project\myProject\.venv\Lib\site-packages\sklearn\ensemble\\_forest.py", line 489, in fit

trees = Parallel(

^^^^^^^^^

File "C:\Project\myProject\.venv\Lib\site-packages\sklearn\utils\parallel.py", line 74, in \_\_call\_\_

return super().\_\_call\_\_(iterable\_with\_config)

^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

File "C:\Project\myProject\.venv\Lib\site-packages\joblib\parallel.py", line 1918, in \_\_call\_\_

return output if self.return\_generator else list(output)

^^^^^^^^^^^^

File "C:\Project\myProject\.venv\Lib\site-packages\joblib\parallel.py", line 1847, in \_get\_sequential\_output

File "C:\Project\myProject\.venv\Lib\site-packages\sklearn\utils\parallel.py", line 136, in \_\_call\_\_

return self.function(\*args, \*\*kwargs)

^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

Wyjasnienie”

Kiedy próbujesz użyć cross\_val\_score, wykonanie zostało przerwane przez KeyboardInterrupt. Może to oznaczać, że proces trwał zbyt długo lub został ręcznie zatrzymany. cross\_val\_score może być czasochłonny dla dużych zbiorów danych lub złożonych modeli jak RandomForest. Jeśli to wywołanie nie jest potrzebne do działania aplikacji, rozważ jego usunięcie lub przetestowanie go osobno. Możesz także użyć mniejszej wartości dla cv, np. cv=3, aby przyspieszyć proces.

***nastepnie FastAPI”***

Wygląda na to, że zapisujesz model i scaler w model\_random\_forest.pkl, a następnie próbujesz go załadować. Jeśli zapis jest częścią skryptu, można to zrobić tylko raz, a potem jedynie wczytywać model.

Sprawdz czy plik model\_random\_forest.pkl oraz pliki szablonów HTML (form.html i result.html) są dostępne w odpowiednich katalogach.

***Poprawilem twoj kod oto on”***

import os

from fastapi import FastAPI, Request, Form

from fastapi.responses import HTMLResponse, RedirectResponse

from fastapi.templating import Jinja2Templates

from pydantic import BaseModel

import numpy as np

import joblib

app = FastAPI()

templates = Jinja2Templates(directory="templates")

# Wczytaj model i scaler

model\_path = 'model\_random\_forest.pkl'

if os.path.exists(model\_path):

    loaded = joblib.load(model\_path)

    model = loaded.get('model')

    scaler = loaded.get('scaler')

else:

    model = scaler = None

    print("Błąd: Plik model\_random\_forest.pkl nie został znaleziony.")

class ClientData(BaseModel):

    is\_tv\_subscriber: int

    is\_movie\_package\_subscriber: int

    subscription\_age: float

    bill\_avg: float

    reamining\_contract: float

    service\_failure\_count: int

    download\_avg: float

    upload\_avg: float

    download\_over\_limit: int

@app.get("/", response\_class=RedirectResponse)

async def root():

    return RedirectResponse(url="/form")

@app.get("/form", response\_class=HTMLResponse)

async def show\_form(request: Request):

    return templates.TemplateResponse("form.html", {"request": request})

@app.post("/predict\_churn", response\_class=HTMLResponse)

async def predict\_churn(

    request: Request,

    is\_tv\_subscriber: int = Form(...),

    is\_movie\_package\_subscriber: int = Form(...),

    subscription\_age: float = Form(...),

    bill\_avg: float = Form(...),

    reamining\_contract: float = Form(...),

    service\_failure\_count: int = Form(...),

    download\_avg: float = Form(...),

    upload\_avg: float = Form(...),

    download\_over\_limit: int = Form(...)

):

    try:

        # Przetwarzanie danych wejściowych

        input\_data = np.array([

            is\_tv\_subscriber,

            is\_movie\_package\_subscriber,

            subscription\_age,

            bill\_avg,

            reamining\_contract,

            service\_failure\_count,

            download\_avg,

            upload\_avg,

            download\_over\_limit

        ]).reshape(1, -1)

        # Skalowanie danych

        input\_data\_scaled = scaler.transform(input\_data)

        # Predykcja prawdopodobieństw

        probabilities = model.predict\_proba(input\_data\_scaled)

        prob\_churn = probabilities[0][1]

        prob\_stay = probabilities[0][0]

        # Zwrócenie wyniku

        return templates.TemplateResponse("result.html", {

            "request": request,

            "probability\_stay": f"{prob\_stay:.2f}",

            "probability\_churn": f"{prob\_churn:.2f}"

        })

    except Exception as e:

        print(f"Błąd: {e}")

        return templates.TemplateResponse("error.html", {"request": request, "error": str(e)})

***wynik mam taki “***

***(.venv) PS C:\Project\myProject\DataScienceGroupProject\KINIAKA> uvicorn main:app --reload --host 0.0.0.0 --port 8000***

***INFO: Will watch for changes in these directories: ['C:\\Project\\myProject\\DataScienceGroupProject\\KINIAKA']***

***INFO: Uvicorn running on http://0.0.0.0:8000 (Press CTRL+C to quit)***

***INFO: Started reloader process [33972] using StatReload***

***INFO: Started server process [19432]***

***INFO: Waiting for application startup.***

***INFO: Application startup complete.***

***Project3.jpynb dzial bez zarzutow.***

***Docker”***

***Komenda***

***docker-compose up --build –d***

***Error”***

***[+] Running 1/2***

***✔ Network kiniaka\_default Created 0.1s***

***- Container fastapi\_app Creating 0.0s***

***Error response from daemon: Conflict. The container name "/fastapi\_app" is already in use by container "ba88d5e499db6d1aa124b3155ad28a7a813844a24ab9de7187a12662d390024f". You have to remove***

***(or rename) that container to be able to reuse that name.***

Jeśli chcesz zachować istniejący kontener, można nadać nowemu kontenerowi inną nazwę. W docker-compose.yml mozna zmienic container\_name na inna nazwę, np.:

services: app: container\_name: fastapi\_app\_new # Zmieniona nazwa tak jak ponizej “

ervices:

  app:

    build:

      context: .

      dockerfile: Dockerfile

    container\_name: fastapi\_app\_new

    ports:

      - "8000:8000"

    volumes:

      - .:/app

    env\_file:

      - .env

***Lub zlikwidowac kontener.***

***Jezeli chcesz zatrzymac kontenery to musisz je zatrzymac”***

***Sprawdz kontenery komenda „***

***docker ps***

***u mnie wynik***

***(.venv) PS C:\Project\myProject\DataScienceGroupProject\KINIAKA> docker ps***

***CONTAINER ID IMAGE COMMAND CREATED STATUS***

***PORTS NAMES***

***ba88d5e499db marcinolo-app "uvicorn main:app --…" About an hour ago Up About an hour***

***8080/tcp, 0.0.0.0:8001->8000/tcp fastapi\_app***

***6a8e757f580c fastapi\_app "uvicorn main:app --…" About an hour ago Up About an hour***

***0.0.0.0:8000->8000/tcp, 8080/tcp thirsty\_grothendieck***

fastapi\_app korzysta z przekierowania 8001:8000

thirsty\_grothendieck korzysta z portu 8000:8000

zatrzyamac trzeba oba kontenery komenda

***docker stop ba88d5e499db***

***docker stop 6a8e757f580c***

***nastepnie uruchamiamy komenda***

***docker-compose up --build –d***

***wynik z bledem***

***[+] Running 0/1***

***- Container fastapi\_app\_new Starting 0.2s***

***Error response from daemon: driver failed programming external connectivity on endpoint fastapi\_app\_new (c8d82e8ea765754c80016b3cd2d1b3125ae3a05afd125e0f601c34b34bb37b40): Bind for 0.0.0.0:8000 failed: port is already allocated***

***W powershel uzyj komendy***

***netstat -aon | findstr :8000***

***ja ma mtaki wynik***

***(.venv) PS C:\Project\myProject\DataScienceGroupProject\KINIAKA> netstat -aon | findstr :8000***

***TCP 0.0.0.0:8000 0.0.0.0:0 LISTENING 38772***

***TCP [::]:8000 [::]:0 LISTENING 38772***

***TCP [::1]:8000 [::]:0 LISTENING 21000***

***Wpisz w powershel te linijki***

***taskkill /PID 38772 /F***

***taskkill /PID 21000 /F***

***co zakonczy process***

***moj wynik***

***.venv) PS C:\Project\myProject\DataScienceGroupProject\KINIAKA> taskkill /PID 38772 /F***

***SUCCESS: The process with PID 38772 has been terminated.***

***(.venv) PS C:\Project\myProject\DataScienceGroupProject\KINIAKA>***

***(.venv) PS C:\Project\myProject\DataScienceGroupProject\KINIAKA> taskkill /PID 21000 /F***

***SUCCESS: The process with PID 21000 has been terminated.***

***Nastepnie uzyj komendy do odpalania dockera”***

***docker-compose up --build –d***

***upewnij sie czy masz docker desctop otwarty***

***moj wynik***

***(.venv) PS C:\Project\myProject\DataScienceGroupProject\KINIAKA>***

***docker-compose up --build -d***

***[+] Building 0.7s (14/14) FINISHED docker:desktop-linux***

***=> [app internal] load build definition from Dockerfile 0.0s***

***=> => transferring dockerfile: 894B 0.0s***

***=> [app internal] load metadata for docker.io/library/python:3.11-slim 0.4s***

***=> [app internal] load .dockerignore 0.0s***

***=> => transferring context: 2B 0.0s***

***=> [app 1/9] FROM docker.io/library/python:3.11-slim@sha256:5148c0e4bbb64271bca1d332236 0.0s***

***=> [app internal] load build context 0.0s***

***=> => transferring context: 752B 0.0s***

***=> CACHED [app 2/9] WORKDIR /app 0.0s***

***=> CACHED [app 3/9] ADD requirements.txt /app/requirements.txt 0.0s***

***=> CACHED [app 4/9] RUN pip install --no-cache-dir -r requirements.txt 0.0s***

***=> CACHED [app 5/9] ADD model\_random\_forest.pkl /app/model\_random\_forest.pkl 0.0s***

***=> CACHED [app 6/9] ADD templates /app/templates 0.0s***

***=> CACHED [app 7/9] ADD . /app 0.0s***

***=> CACHED [app 8/9] ADD start.sh /app/start.sh 0.0s***

***=> CACHED [app 9/9] RUN chmod 777 start.sh 0.0s***

***=> [app] exporting to image 0.1s***

***=> => exporting layers 0.0s***

***=> => writing image sha256:cbca147a9d65c5dd2bc054610dff88d4975c0bba25d3f3803a594441704d 0.0s***

***=> => naming to docker.io/library/kiniaka-app 0.0s***

***[+] Running 1/0***

***✔ Container fastapi\_app\_new Running 0.0s***

***(.venv) PS C:\Project\myProject\DataScienceGroupProject\KINIAKA>***

***Czyli wszystko dziala jak t kpo kolei zrobisz t opowinno u Ciebie dzialac I jezel ito jest w main jako project nasz to mam yz glowy mozna go bedzie wyslac .***