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from sensor.exception import SensorException
from sensor.logger import logging
import os
import sys
from pandas import DataFrame
from sensor.entity.config entity import DataIngestionConfig
from sensor.entity.artifact entity import DataIngestionArtifact
from sensor.data access.sensor data import SensorData
from sklearn.model selection import train test split
class DataIngestion:
    def init (self,data ingestion config:DataIngestionConfig):
        try:
            self.data ingestion config=data ingestion config
        except Exception as e:
            raise SensorException(e,sys)
    def export data into feature store(self) -> DataFrame:
        Export mongo db collection record as data frame into
feature
        try:
            logging.info("Exporting data from mongodb to feature
store")
            sensor_data = SensorData()
            dataframe =
sensor data.export_collection_as_dataframe(collection_name=self.d
ata_ingestion_config.collection_name)
            feature_store_file_path =
self.data_ingestion_config.feature_store_file_path
            #creating folder
            dir_path = os.path.dirname(feature_store_file_path)
            os.makedirs(dir path,exist ok=True)
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dataframe.to csv(feature store file path,index=False,
header=True)
            return dataframe
        except Exception as e:
            raise SensorException(e,sys)
    def split data as train test(self, dataframe: DataFrame) ->
None:
        try:
            train_set, test_set = train_test_split(
                dataframe,
test_size=self.data_ingestion_config.train_test_split_ratio
            logging.info("Performed train test split on the
dataframe")
            logging.info(
                "Exited split data as train test method of
Data_Ingestion class"
            dir path =
os.path.dirname(self.data_ingestion_config.training_file_path)
            os.makedirs(dir_path, exist_ok=True)
            logging.info(f"Exporting train and test file path.")
            train_set.to_csv(
                self.data ingestion config.training file path,
index=False, header=True
            test set.to csv(
                self.data ingestion config.testing file path,
index=False, header=True
```