

PROBLEM 1: Case Study - Artificial Neural Networks in Fraud Detection

Scenario: A bank is implementing a new fraud detection system using Artificial Neural Networks (ANNs). The system is designed to identify suspicious transactions based on various input features.

- The bank's data scientist has identified the following input features for the ANN model:
 - Transaction Amount
 - Transaction Frequency
 - Transaction Location
 - Transaction Time
 - Customer Age
 - Customer Credit Score
- The data scientist has also identified the following output classes for the ANN model:
 - Fraudulent Transaction
 - Legitimate Transaction
- The data scientist has identified the following hidden layers for the ANN model:
 - Hidden Layer 1: 10 nodes
 - Hidden Layer 2: 5 nodes
- The data scientist has identified the following activation functions for the ANN model:
 - Hidden Layer 1: Sigmoid
 - Hidden Layer 2: ReLU
 - Output Layer: Sigmoid
- The data scientist has identified the following loss function for the ANN model:
 - Cross-Entropy Loss
- The data scientist has identified the following optimization algorithm for the ANN model:
 - Adam
- The data scientist has identified the following evaluation metrics for the ANN model:
 - Accuracy
 - Precision
 - Recall
 - F1 Score
- The data scientist has identified the following data augmentation techniques for the ANN model:
 - Random Noise
 - Random Scaling
 - Random Rotation

Hesi Case Studies Answers Brain Attack

KJ Lindholm-Leary



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