



HOW TO CHOOSE THE RIGHT AI MODEL



A Decision Framework for Financial and Legal Services

- 1 If predicting financial trends and values
- 2 If classifying financial or legal documents
If verifying client identity and assessing risk (KYC)
If ensuring no conflicts of interest (KYC)
- 3 If analysing unstructured data
- 4 If optimising financial strategies or legal decisions
- 5 If analysing complex patterns in data
- 6 If processing legal or financial documents
- 7 If making decisions or predictions based on historical data



1

Predicting financial trends or values

Supervised Learning
Regression

Use Cases: forecasting market trends, predicting financial metrics

2

Classifying financial or legal documents Verifying client identity & assessing risk (KYC) Ensuring no conflicts of interest (Conflict checks)

Supervised Learning
Classification

Is your data linearly separable?

Yes - Logistic Regression

Use Cases: classifying credit risk, legal case outcome prediction, basic KYC checks, initial conflict check screening

No - Support Vector Machines (SVM)

Use Cases: complex financial product classification, legal document analysis, complex KYC involving multiple data sources, detailed conflict checks with extensive data



3

Analysing unstructured data

Unsupervised Learning

Do you require an analysis of customer behaviour or market segments?

Yes - Hierarchical Clustering

Use Cases: client segmentation in legal services, market analysis

No - K-means Clustering

Use Cases: client portfolio segmentation, risk profiling



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Optimising financial strategies or legal decisions

Reinforcement Learning

Are you modelling decision-making processes?

Yes - Policy Gradients

Use Cases: optimising investment strategies, legal strategy development

No - Q-Learning

Use Cases: automated trading systems, legal case analysis simulations



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Analysing complex patterns in data

Deep Learning

What type of data are you dealing with?

Transactional or operational data - Convolutional Networks (CNN)

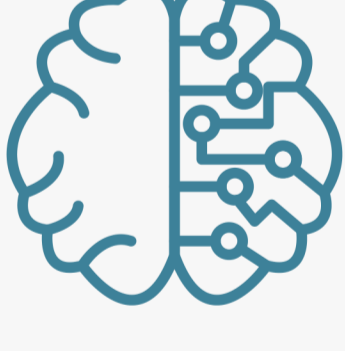
Use Cases: fraud detection in financial transactions

Time-series financial data - Recurrent Neural Networks (RNN)

Use Cases: financial market prediction, cash flow analysis

Need to identify patterns or anomalies - Generative Adversarial Networks (GAN)

Use Cases: financial modelling, risk assessment



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Processing legal or financial documents

Natural Language Processing (NLP)

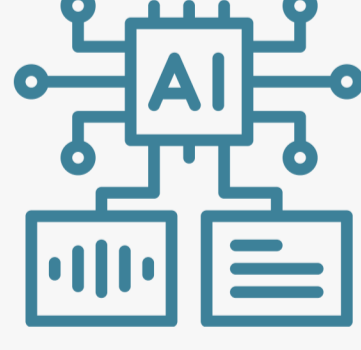
What is your NLP task?

Document analysis & summarisation - Transformer Models

Use Cases: legal document summarisation, financial report analysis

Text classification or sentiment analysis - Long-Short Term Memory (LSTM)

Use Cases: sentiment analysis of legal opinions, financial news analysis



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Decisions or predictions based on historical data

Decision Trees & Ensemble Methods

What kind of problem are you facing?

Need interpretable models for risk and compliance - Decision Trees

Use Cases: compliance risk assessment, legal precedent analysis

Require robust models for prediction or classification

For fraud detection or client retention - Random Forest

For predictive analytics in finance - Gradient Boosting Machines (GBM)

