INFOSOFT IT SOLUTIONS

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FEATURE ENGINEERING

Introduction to Feature Engineering

- Understanding Features
- Importance of Feature Engineering
- Overview of the Data Science Workflow

Data Preprocessing

- · Handling Missing Values
- · Data Cleaning Techniques
- Data Transformation

Feature Scaling

- Normalization and Standardization
- Min-Max Scaling
- Robust Scaling

Feature Selection

- Filter Methods (Correlation, Chi-Square)
- Wrapper Methods (RFE, Recursive Feature Elimination)
- Embedded Methods (Lasso, Ridge)

Feature Extraction

- Principal Component Analysis (PCA)
- Linear Discriminant Analysis (LDA)
- t-Distributed Stochastic Neighbor Embedding (t-SNE)

Categorical Feature Encoding

- One-Hot Encoding
- Label Encoding
- Target Encoding
- Frequency Encoding

Text Feature Engineering

- Bag of Words
- TF-IDF
- Word Embeddings (Word2Vec, GloVe)

Feature Engineering for Time Series Data

- Date-Time Features
- Lag Features
- Rolling Statistics

Interaction Features

- Polynomial Features
- Binning and Discretization
- Interaction Terms

Feature Engineering in Practice

- Case Studies
- Practical Applications
- Hands-on Projects

Advanced Techniques

- Feature Importance
- Using Feature Tools (FeatureTools, AutoFeat)
- · Feature Engineering in Deep Learning