

Techno India NJR Institute of Technology

Machine Learning Basic

Training Module

Total Time: 2 Month

MODULE

- Overview of Machine Learning Onramp
- Classification Workflow
- Importing and Pre-processing Data
- Engineering Features
- Classification Models
- Conclusion

Overview of Machine Learning Onramp

- What is Machine Learning ?
- Overview
- Import Data
- Process Data
- Extract Features
- Build a Model
- Evaluate the Model
- Review

Classification Workflow

- Types of Signals
- Calculating Summary Statistics
- Finding Peaks
- Computing Derivatives
- Calculating Correlations
- Automating Feature Extraction

Importing and Pre-processing Data

- Organization of Data Files
- Creating Datastores
- Adding a Data Transformation

Engineering Features

- Types of Signals
- Calculating Summary Statistics
- Finding Peaks

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(Principal)

- Computing Derivatives
- Calculating Correlations
- Automating Feature Extraction

Classification Models

- Training and Testing Data
- Machine Learning Models
- Training a Model
- Making Predictions
- Investigating Misclassifications
- Improving the Model

Conclusion

- Additional Resources
- Survey

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