AI: MACHINE LEARNING ESSENTIALS TRAINING

This foundational 8-hour long course will de-mystify machine learning and put you back on the cutting edge.

Course Agenda

- Overview and Expectations
- Al for the Built Environment
 - Benefits and Uses
 - Data Mining
- Real-World Applications of Al
 - Utilizing Al Technology Today
 - Algorithmic Decision-Making Examples
 - Machine Learning Examples
- Getting Started in ML
 - Data Scientist Role and Tools
 - Best Practices and Data Requirements
 - Choosing the Right Algorithms/Models
 - Supervised Learning Prediction or Inference
 - Bias-Variance Tradeoff
 - Cross-Validation and Partitioning
 - Unsupervised Learning Clustering
- Exploring Different ML Algorithms
 - Regression Type Models
 - Classification Type Models
 - Neural Networks
- Supporting Tools
 - Dimensionality Reduction
 - Principal Component Analysis
 - Ensemble Gradient Boosting
 - Sensitivity Analysis
- Wrap-Up and Appendices
 - Appendix A Glossary
 - Appendix B References