

Ian Shelton

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Experience

The Home Depot

Senior Analyst – Decision Analytics

Analyst – Decision Analytics

January 2017-Present

January 2015-January 2017

- Data Mining
 - Unsupervised Attachment Analysis
 - Implemented unsupervised Apriori algorithm against over 25 million transactions to generate attachment rules for most frequently purchased item sets
 - Enhanced algorithm by utilizing product attribute data to identify most interesting attachment rules
 - Ad Hoc Attachment Analysis
 - Developed attachment analysis with location, time, and product attribute dimensions (capable of analyzing over 1.3 billion transactions) to help optimize product assortment decisions and formulate competitive strategy
 - Helped organization understand product attachment methodology by simplifying KPIs and emphasizing importance of causality measure
- Data Analysis
 - Application Features
 - Analyzed credit data to develop methodology that allocates tender amounts to an item level
 - Analyzed receipt data to develop methodology that restates historical receipt values for receipt decomposition
 - User Experience
 - Analyzed query performance data to determine how new features impact user experience
 - Utilized R text mining package to analyze support emails
- Development
 - Developed Python code to sync Jupyter/IPython notebook content with HTML content on GitHub Pages to facilitate understanding of code/models across organization
 - Developed Python code to modify underlying Tableau XML to facilitate updating dashboard titles, resizing layout containers, and adding worksheets

Technical Skills

- Languages: SQL, VBA, R, Python, JavaScript
- Data Analysis Tools: Tableau, Microsoft Excel, Stata, XLMiner

Education

Master of Science, Major in Information Systems and Operations Management

University of Florida

Bachelor of Science in Business Administration, Major in Finance

University of Florida

Passed Society of Actuaries Probability Exam (2011)