Ian Shelton

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Experience

The Home Depot

Senior Analyst – Decision Analytics	January 2017-Present
Analyst – Decision Analytics	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 and space planning decisions
    - Helped organization understand product attachment methodology by emphasizing causality measure

- Data Analysis
  - Analyzed credit data for transactions with multiple tenders to develop methodology to allocate tender amounts to an item level
  - Analyzed receipt data to develop methodology to restate historical receipt values for receipt decomposition
  - Analyzed query performance data to determine how new features impact user experience
  - Utilized R text mining package to analyze support emails and identify opportunities for simplifying financial applications

- 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
- 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)