Ian Shelton

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Experience

The Home Depot

Senior Analyst – Business Intelligence	January 2017-Present
Analyst – Business Intelligence	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 data (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 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
  - Analyzed transaction data to develop methodology that accurately identifies dominant tender for each transaction
  - Analyzed receipt data to develop methodology to restate historical receipt values for receipt decomposition

- Development
  - Developed python code to modify underlying Tableau XML to facilitate updating dashboard titles, resizing layout containers, and adding worksheets
  - Developed VBA code to validate and document financial application data
  - Developed VBA code to modify Pivot Table data across Excel Workbooks

Technical Skills

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

Education

Master of Science, Major in Information Systems
University of Florida

Bachelor of Science in Business Administration, Major in Finance
University of Florida
Passed Society of Actuaries Probability Exam (2011)