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 decisions and formulate competitive strategy
        - Helped organization understand product attachment methodology by simplifying KPIs and emphasizing importance of causality measure

- Development
    - Developed internal GitHub Pages site to transform how analytics organization documents code and processes
        - Utilized Python to sync code contributions to main GitHub Pages site
        - Utilized JavaScript to allow users to search HTML content and email contributors
    - Developed Python code to modify underlying Tableau XML to facilitate updating dashboard titles, resizing layout containers, and adding worksheets
    - Developed VBA code to modify Pivot Table data across Worksheets based on single Pivot Table selection

- Ad Hoc Data Analysis
    - Analyzed credit data to develop methodology that allocates tender amounts to an item level
    - Analyzed query performance data to determine how new features impact user experience
    - Utilized R text mining package to analyze support emails

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)