Ian Shelton

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Technical Skills

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

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 with Google BigQuery SQL to generate attachment rules for most frequently purchased item sets
        - Enhanced algorithm by utilizing product attribute data to identify most surprising attachment rules
    - Ad Hoc - Supervised Attachment Analysis
        - Implemented supervised attachment algorithm with location, time, and product attribute data to help merchandising 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 impacted user experience
    - Utilized R text mining package to analyze support emails to identify opportunities for simplifying financial applications
    - Conducted analysis on enterprise transaction tables to develop methodology that accurately determines the dominant tender for each transaction
    - Studied enterprise receipt data to develop methodology and logic to restate historical receipt values for freight receipt decomposition

- Development
    - Utilized python to develop application that modifies underlying Tableau XML, allowing users to programmatically update dashboard titles, resize layout containers, and add worksheets
    - Developed Tableau Mobile Sales Dashboards by leveraging Google BigQuery and the Tableau JavaScript API
    - Wrote VBA code to modify Pivot Table data across Excel Workbooks

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)