Tess Thomas

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Profile Summary

Analytics professional with advanced quantitative skills and 4 years of experience in data analytics and business intelligence.
- Proficient in statistical programming, modeling and visualization using R, Python, Tableau, SQL and Advanced Excel.
- Highly skilled in identifying insights from real-life large unstructured dataset and presenting findings to key stakeholders.
- Working within diverse cross-sectional teams and prioritizing goals to ensure timely deliverables.

Academic Achievements

University of South Florida, Tampa, FL   **December 2017**
- Master of Science in Management Information Systems (GPA: 3.80/4.00)

Mahatma Gandhi University, Kerala, India   **May 2013**
- Bachelor of Technology in Electronics and Communication Engineering (GPA: 3.98/4.00)

Technical Skills

- **Languages:** R, Python, Java J2EE, SQL, HTML/CSS, PL/SQL
- **Databases:** Oracle 10g and above, MySQL, NoSQL, MongoDB, Cassandra
- **Data Analysis:** SAS, Rapid Miner, WEKA, NLP, Text Mining, Supervised/Unsupervised Learning
- **Big Data/Cloud**: Hadoop, MapReduce, Spark, Hive, Pig, AWS, Flume
- **ETL/Reporting:** Tableau, Shiny, Power BI, IBM SPSS, Informatica, Advanced MS Excel
- **Tools:** Oracle JDeveloper, Eclipse, SQL Developer, RStudio, Oracle ADF, Git, Spyder, Jupyter
- **Project Management:** Microsoft Office Suite, Agile/SCRUM, ArgoUML, Microsoft Visio, JIRA, Confluence, Taleo
- **Certifications:** Google Analytics, Statistical Inference, Financial Accounting, Analytics and Business Intelligence

Professional Experience

Kforce Inc., FL | People Analytics Intern   **May 2017 – December 2017**
- Developed candidate selection tool in **Taleo** by scraping resumes using **Python** and building predictive models in **R** which resulted in **20% increase in successful intake of candidates** by the functional team.
- Incorporated dashboards and visualizations of the statistical findings of candidate segregation and HR system metrics in **Tableau and Power BI** for consumption by clients in HR and other functional teams**.**
- Collaborated with **HR, People Operations, Benefits, IT and Finance** to implement data stack and Business Intelligence systems to measure, track and report on turnover metrics/reasons for leaving, engagement measures etc.
- Performed **data profiling, data mapping, built data model** for creation of a recommendation model based on exit surveys and performed sentimental analysis in **Python** and provided insights to improve the employee experience.

Junior Achievement BizTown, FL | Data Analyst   **January 2017 – May 2017**
- Research Study in **volunteer analytics** under Dr. Balaji Padmanabhan, Director, Center for Analytics and Creativity.
- Led the design, implementation and reporting of the survey process for collecting data by implementing questionnaire for volunteers in **Survey Monkey** and identifying patterns in volunteer participation using **R** and **Tableau**.
- Assisted management in assessing the effectiveness of people management practices, including performance management and improving the corporate participation by providing analytic observations and reports in **Tableau**.
- Presented exploratory analysis and recommendations to the board members which were adopted by the organization.

Wipro Technologies, India | Software Engineer   **February 2016 – July 2016**
    Client: Walmart Mexico
- Collected **web logs** and **click stream data** using **Flume** and stored in **HDFS**. Performed analysis on customer behavior and created customer segmentation dashboards in **Tableau** for analysis of Customer Reviews and Purchase Patterns.
- Transformed log data to structured data using **MapReduce** programs and developed **Hive** queries to perform analytical analysis leading to proposing and implementing enhancements which **doubled the website traffic**.
- Performed sentimental analysis and visualizations on customer reviews for products using **Python** libraries like **Numpy, Pandas, Scikit-learn, Textblob, Matplotlib** and conducted predictive analysis on data set to predict the rating based on sentiment score.

Wipro Technologies, India | Software Engineer   **November 2013 – February 2016**

Client: Reed Elsevier

- Performed **data analysis on online reviews and website performance** of cloud based journal submission and editorial portal. Developed solutions on the analysis findings which improved user experience, reduced the poor reviews to **less than 5%** and thereby provided **time and cost savings of around 5 million.**
- Collaborated with business analysts and maintained constant communication with clients to understand and define requirements, develop project map, and applied **agile project management** approach to deliver timely results.
- Coordinated with team for implementation of **ETL** and successfully developed business solutions using **Java**, **Oracle ADF framework** with **Oracle 11g** as backend which increased efficiency to 80%.
- Created dashboards in Excel by using pivot tables and **VLOOKUP**; wrote **VBA** scripts to **automate SQL scripts**.
- Provided functional/technical trainings for 7 new joiners, allocated tasks and made them competent to manage modules.

Professional Accolades

- Aug 2015 - Awarded **Pat on the Back** for proactively understanding the customer requirements and delivering solutions for optimizing the usability of application by gaining insights on user needs and pain-points in an exemplary manner.

Live/Academic Projects

US Death Records   **Tools: R, Shiny**

- Analyzed 300,000 death records and did extensive data cleansing, data preparation and data Readiness using **R**.
- Performed statistical analysis to identify explanatory variables and built **linear, logistic regression models** using **R**.
- Developed interactive dash board app using **Shiny**, for easy access to data along with the summary statistics comparison. (https://myprojects.shinyapps.io/us-death-record/)

Predicting US Elections 2016   **Tools: Python, SAS, Rapid Miner, Tableau**

- Developed model to predict election by analyzing 25,000 primary election results using machine learning algorithms like **Neural Networks, Naïve Bayes** and **Decision Trees**. Visualization models and trend lines were plotted using **Tableau.**
- Extracted the tweets from twitter using Tweepy API written in **Python** and build regression models using **Rapid Miner**.
- Visualization models were plotted using **Tableau** along with Rapid Miner's **Aylien** tool for **sentiment analysis**.

Standalone E-Commerce Web Application   **Tools: Hadoop, Node JS, MongoDB**

- Designed and developed an E-Commerce web application by **Hadoop** ecosystem using **Node JS** and **MongoDB**.
- Implemented functionalities such as **Redis Cache**, **CDN** for image hosting and **Elastic Search** for fuzzy search.
- Determined **project scope**, **prioritized tasks**, **estimated work efforts** and **prepared project charter and work plan**.

House Sales Prediction   **Tools: Python**

- Explored data and visualized summary statistics like pair plot visualization and correlation heatmap using **Matplotlib**, **Seaborn**. Implemented Recursive Feature Elimination method of feature ranking via **Linear Regression**.
- Built linear models like **Linear Regression, Lasso Regression, Ridge Regression and Elastic Net** using **Sklearn's** linear model and formed a feature ranking matrix to rank the feature importance.

E-Commerce Systems   **Tools: SQL, PL/SQL, MS Visio**

- Designed E-Commerce Systems database and developed **logic database design** in Oracle using SQL Developer.
- Responsible for **requirements gathering, data architecture and database modelling** based on requirements.
- Performed Performance Tuning, Database Security and developed complex **SQL queries, stored procedures.**

Community Involvement

Association for Information Systems at USF | Volunteer   **2016**

- Hosted Big Data Day to introduce high school seniors to professional opportunities in information systems and analytics.
- Coordinated event timelines, handled event logistics and guided students with the activities and assisted chaperones.

Abhiyanthriki RSET | Event Coordinator   **2013**

- Organized an event MI-5 for the technical fest participated by 1000 students.
- Handled event logistics, including registration and attendee tracking, presentation and materials support.