

Rapid Data Science Application Deployment with R Shiny

GAINING INSIGHTS THROUGH DATA 18/02/2017







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Who am i?

- Nkululeko Thangelane
 - Group Data Science at Standard Bank
 - Purpose : Expose Machine Learning and A.I to the Bank

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R

Analytics at Standard Bank

- Business Intelligence:
 - Qlik View / Qlik Sense
 - SAP Business Objects
 - Microsoft Report Service
 - Power BI
- Advanced Analytics
 - SAS







Power BI



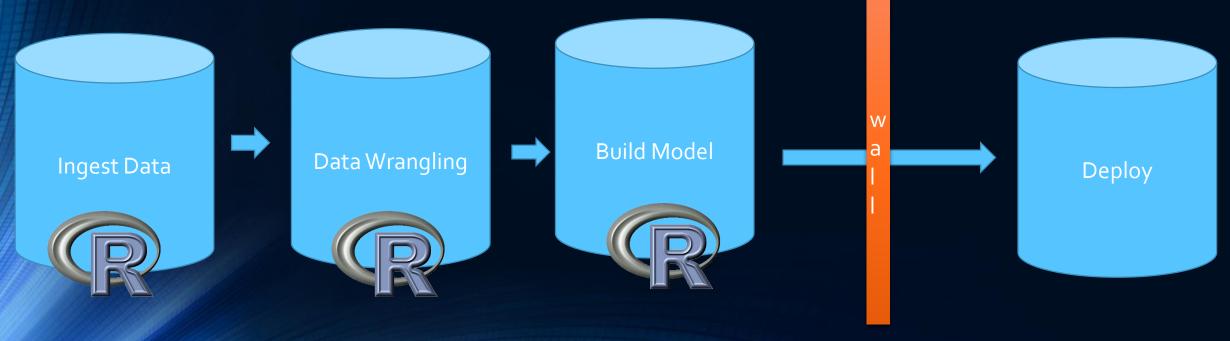






Past Problems

- data analysts and scientists would write algorithms / build models in R and then work
 with web developers to create data visualizations for websites or with BI tool experts to
 convert their work into proprietary GUI experiences.
- Deployment brings issues such as:
 - Delays
 - Expense (Development and Tools)



Data Science Technologies

theano





SBG DS Life Cycle







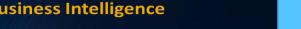
Shiny in Big Data















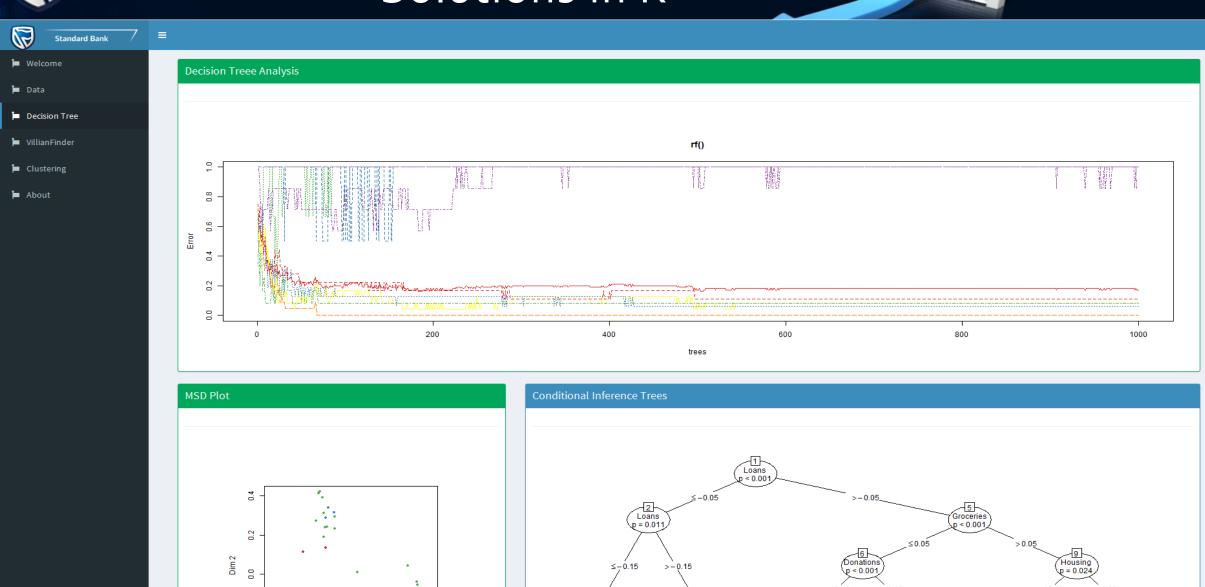






Solutions in R







Solutions in R



- Reconciliation Project: A shiny app used to help reconciliation stuff analyse there files and extract matches.
- Service Request and Maintenance Application : A shiny app used to help evaluate data about service request.
- Twitter Dashboard: A single application to help the organization monitor twitter data.
- Call Volumes Application: An application to assist in the forecasting of Call Volumes
 Demand. Used to forecast demand and plan for stuff to take on the demand. This
 application allows users to upload historic files of the demand and forecast the demand.



Thank You



Lets keep #WinningWithData