

# Ram Aditya

## Data Scientist - Synovus Bank

San Jose, CA - Email me on Indeed: [indeed.com/r/Ram-Aditya/97db4fae0609891e](https://www.indeed.com/r/Ram-Aditya/97db4fae0609891e)

Willing to relocate: Anywhere

Authorized to work in the US for any employer

### WORK EXPERIENCE

#### Data Scientist

Synovus Bank - Columbus, GA - September 2015 to Present

Description: The aim of the project is to analyze individual customer behaviors and spending activities. Applying unsupervised and supervised machine learning techniques the team have been able to predict customer behaviors.

Responsibilities:

- Analyzed individual customer behavior.
- Segmented customers based on spending activities.
- Categorized risky customers based on the days past due parameter.
- Categorized active and inactive customers based on their utilization.
- Designed, developed and deployed statistical data models R.
- Utilized machine learning techniques for predictions & forecasting based on the training data.
- Developed data mining algorithms using Machine learning (Random Forest, Regression, Clustering) for decision making using R, Mahout on Hadoop.
- Partnered with ETL team to extract data from Hadoop environment.
- Prepared Dashboards using calculations, parameters in QlikView.
- Created and assisted users in Tableau dashboard development.

Environment: R, Hadoop, Mahout, QlikView, Excel.

#### Data Scientist

Verizon Wireless - Basking Ridge, NJ - November 2013 to September 2015

Description: The project focused on sales prediction by using Sales training data into supervised classification algorithm to predict customer churn. Responsibilities: ● Supported sales forecasting & planning team by improving time series & principal component analysis. ● Utilized machine learning techniques for predictions & forecasting based on the Sales training data. ● Executed overall data aggregation/alignment & process improvement reporting within the sales dept. ● Managed Data quality & integrity using skills in Data Warehousing, Databases & ETL. ● Monitored and maintained high levels of data analytic quality, accuracy, and process consistency. ● Assisted sales management in data modeling. ● Ensured on-time execution and implementation of sales planning analysis and reporting objectives. ● Worked with sales management team to refine predictive methods & sales planning analytical process. ● Executed and monitored the accuracy and efficiency for sales forecasts & reporting. ● Prepared Dashboards using calculations, parameters in QlikView. ● Supported consistent implementation of company reporting and sales process initiatives.

Environment: R, Excel, SAS, QlikView, MS SQL Server 2010.

#### Data Scientist

Pinnacle Financial Partners - Nashville, TN - December 2012 to November 2013

Description: The project was to build an algorithm that accurately classifies credit card holders among multiple classes based on the historical data available on multiple variables. Objective of the project was to improve bank's efficiency by reducing default rate while offering new products. Responsibilities:

- Responsible for predictive analysis of credit scoring to predict whether or not credit extended to a new or an existing applicant will likely result in profit or losses.
- Primarily used R packages for the data mining tasks.
- Participated in all phases of data mining; data collection, data cleaning, developing models, validation and visualization.
- Data for modeling was collected using SQL by querying several tables. The extracted tables were further appended or merged to create tables for modeling using R.
- Adopted principal component analysis. The missing values were replaced if applicable with the group average using proc means.
- Computed Credit Risk Parameters such as Probability of Default and Loss Given Default and Exposure at Default.
- Used logistic regression, clustering and multivariate modeling to provide valuable analytical insights.
- Used R for generating various graphs and charts for analyzing the different features.
- Used k-fold cross validation to avoid over fitting.
- Used Kolmogorov-Smirnov test to measure the quality of the models.

Environment: R, MS SQL, Hadoop, Hive, Pig, Mahout.

### **Data Analyst/Data Scientist**

Firestone Tire and Rubber Company - Nashville, TN - February 2011 to November 2012

Description: The project was focused on cost savings activities. The project involved predictive, behavioral or other models, data mining algorithms using Machine learning.

Responsibilities:

- Worked on large data sets of structured, semi-structured, and unstructured data.
- Developed data analysis solutions based on predictive, behavioral or other models via statistical analysis and use of relevant modeling techniques.
- Identified opportunities for Cost saving for the customers using Data models
- Developed data mining algorithms using Machine learning (Decision Tree, Regression, Clustering) on Historical big data for decision making using R, Mahout on Hadoop
- Designed, developed and deployed statistical data models R, Python

Environment: R, Hadoop, Mahout, Python, MS SQL Server 2010.

### **BI Analyst**

EXLSERVICE Holdings Inc - January 2009 to November 2010

Description: The project was based on analysis of client's business needs by developing and implementing the required strategies and applications specified in unique business plans.

- Utilized skills in software applications such as R/Excel/SAS.
- Used decision tree analysis, regression analysis.
- As an ETL Team member, Involved in Business Analysis, Business Process and Technical Design sessions.
- Worked with business and technical staff to develop requirements document and specifications.
- Responsible for extracting data from MS SQL Server, MS Access and Flat files, Data Warehousing & Database Design, ETL, Data reporting and query, preparing data for analytics and project management.
- Created database from representative project data and modified procedures, tables, views and constraints.

- Generated reports for managers using dimensional modeling and reporting tools.
- Edited raw data and created R data sets for statistical analysis for project/business decisions. Used R package for Statistical Analysis. Created and maintained bulk data load & extract processes.

Environment: R, Excel, SAS, MS SQL Server 2008, Excel.

### **Business Analyst**

Casenet, LLC - September 2006 to December 2008

Description: The purpose of the project was to design and develop Hospital Patient Registration System.

- Involved in development for patient registration system for Hospital
- Worked as both developer and problem solver to develop both client side & server side code.
- Worked closely with Business Analysts to understand the requirements.
- Wrote Core Java classes, JSP and HTML files
- Worked with team to develop interactive and user friendly web pages using JSP, CSS, HTML, JavaScript
- Involved in injecting dependencies into code using Spring core module.
- Involved in developing code for obtaining bean references in Spring framework using Dependency Injection (DI) or Inversion of Control (IoC).

Environment: Java/ J2EE, JSP, MySQL, HTML, CSS, JavaScript, Spring.

### **ADDITIONAL INFORMATION PROFESSIONAL SKILLS**

- Statistical Software: R, Matlab, SAS Studio, MS Excel 2010
- Statistical Techniques: Linear Regression, Logistic Regression, Random Forests
- Big Data Ecosystems: HDFS, MapReduce, Mahout, Hive, Pig, Sqoop, Flume
- Database: SQL Server, MS Access 2010, MySQL
- Languages: Java, Python, C#, SQL, HTML, JavaScript