MONEKA BOMMASANI

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WORK EXPERIENCE

Associate Data Analyst, Anti-Money Laundering Strategies at **ACA Compliance Group** [Iselin, NJ]   Jul 2017 – Present

- Performed gap analysis by assessing the Bank's current practices and provided recommendations to be in line with Model Risk Management (MRM) policy as a part of model validation.
- Spearheaded logical testing of AML models to ensure that alerts are generated as expected.
- Executed AML rule tuning through distribution analysis, above-the-line testing (ATL) and below-the-line testing (BTL) and visualized the results through tableau to recommend ideal thresholds for alert generation.
- Attained reconciliation of Bank's customer, account and transaction information to identify data gaps between Bank's source system and AML System; using VBA macros and SQL.
- Verified the data mapping between Bank's legacy system to new interface and tested new interface to ensure the correct data flow between Bank's core system and AML System.
- Optimized ACA Telavance's proprietary Advantage Country Extract (ACE) ™ software to improve the population and accuracy of country codes on the transactions using R.
- Investigated potential Office of Foreign Assets Control (OFAC) hits to ensure transactions were in compliance with United States sanctions.
- Analyzed and identified false positives in Sanction Screening (OFAC) and provided recommendation for fuzzy logic configuration to improve the screening process.
- Documented business requirements, functional specification, test-cases (Unit, SIT and UAT), test-results, implementation instructions and user guide.
- Executed test cases for the testing of various transaction monitoring scenarios.
- Gained knowledge on Actimize SAM and CDD modules, FCRM through internal trainings and knowledge portal.

Data Science Intern at **DataHub** [Chicago, IL]   Jan 2017 – May 2017

- Developed predictive models (CHAID, Logistic Regression, Bayes Network, Neural Network, etc.) to classify the customers into desirable categories for an insurance company, based on a specific set of criteria (like duration with the company, readmission, costs, etc.); using **SPSS** and **IBM Watson Analytics**

Software Development Intern at **Scitus Labs and Technologies** [AP, India]   May 2014 – Jul 2014

- Worked in a team of four to build an android application which keeps track of a student's academic activities; using ADT plugin, **Eclipse** and **MySQL**

TECHNICAL SKILLS and CERTIFICATIONS

AML Tools	Actimize, Bridger Insight, FCRM, OIBS, Prime Compliance Suite, Surety
Languages	C, C++ , CSS , HTML , Java , PHP , Python , R , SAS , SQL
Analytical Tools	ArcGIS, Datameer, Excel, JMP, MySQL, OpenRefine, Power BI, RStudio, SASStudio, Tableau
Certifications	1. **Datameer** Analyst Basics Certification Level1 Apr 2017
	2. **SAS** Certified Base Programmer for SAS 9 Jan 2017

EDUCATION

Clemson University, Clemson, SC [M.S. in Computer and Information Sciences]   May 2017

Gandhi Institute of Technology and Management, India [B.Tech in Computer Science and Engineering]   Aug 2015

ACADEMIC PROJECTS

Data Science, Visualization, Web Development and Data Base   Jul 2016 – Apr 2017

Global Terrorism: Generated dynamic bubble charts, histograms, tree charts, dygraphs, intensity world maps, etc. to visualize the terrorist attacks over 45 years; using **Python**, **Shiny** and **RStudio**

Bike Share System: Performed exploratory data analysis and built regression models to fit a Bike Share system; visualizing the relationship between rental patterns and different factors like weather conditions, time of the day, etc. over two years; using **RStudio**

Indian Health Centers: Extracted data from Wikipedia and Open Government Data(OGD) platform to assess and visualize the number of health centers in India per unit population per unit area; state and district wise, combining three datasets; using **JMP** and **SAS**

School Account Management Portal: Developed a database driven school website having user account management (Registration, Sign-in and Profile Update settings), a data management (to perform insert, update, delete and select operations of courses) and a database administrator (admin having access to underlying database) modules; using **PHP**, **HTML**, **CSS**, **Bootstrap** and **MySQL**

EXTRA CURRICULAR

Global AI Hackathon: Participated in the Global AI Hackathon, challenging the authenticity of news sources to determine the validity of content through the modelling of algorithms and NLP

DataKind: Implemented web-scrapping and sentimental analysis on reddit comments to identify frequently used hate words for Southern Poverty Law Center; using RStudio