Aadish Chopra

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**SUMMARY**

Experienced in statistical analysis, predictive modelling, data analytics and proficiency in Hadoop, hive and SQL and in developing visualization reports using Tableau, RShiny and Alteryx <https://rpubs.com/aadishchopra>

**EDUCATION**

**Master of Science in Management Information Systems** Dec 2017

University of Illinois at Chicago – Liautaud Graduate School of Business

**Bachelor of Technology in Electronics and Comm. -** Rajasthan Technical University May 2015

**TECHNICAL SKILLS**

**Languages:** R, SQL, Java, C++, JavaScript, Python, Bash, Linux Shell Scripting, VBA, Windows Script, Powershell

**Tools:** Excel, SQL Server, PostgreSQL, Hadoop, Hive, Tableau, Power BI, Berkeley Madonna, Matlab, AWS (S3, EC2), Azure

**Machine Learning:** Random Forest, XGBoost, SVM, KNN, Regression, ARIMA, HMM, Latent Dirichlet Allocation, Bayesian Networks, Meta-Analysis, TensorFlow, mxnet, keras, torch

**EXPERIENCE**

**Data Analytics Consultant (Contract): Risk Engineering** @ZURICH INSURANCE Nov2018-Present

* Creation of dashboards using SSRS, flexdashboard, SQL and Power BI for the risk engineering team
* Development of analytical app powered by R6 framework, sharepoint API, powershell which monitors job status
* Creation of quick builders which is an excel based VBA tool for end users. Quick builders serve as quick pivots and facilitate charts and dashboarding for the senior leadership team
* Automation of file servers using RCurl. It runs jobs via task schedulers and a powershell script extracts based on selected parameters like day, file type, job period
* Analytics on jobs run through sql server and creation of dashboard of successful jobs, elapsed time and other KPI’s

**Data Analyst (Contract):** CENTENEMay2018 -Oct 2018

* Data warehouse creation of provider data using Access, SQL, VBA
* Predictive modelling on usage of state Medicaid funds using linear regression, lasso, ridge, polynomial and splines
* Understanding of HIPAA rules in data governance, data migration to the cloud and security

**Data Analyst (INTERN):** NIELSEN CATALINA SOLUTIONSOct - Dec 2017

* Created data pipelines with Unix for data analysis and migrated those batches to Hadoop
* Worked on campaign studies to find sales lift. Used neural nets to find growth factors in advertisement sector
* Automated extraction of data using web scraping/RESTful API techniques.

**Associate Systems Engineer:** TATA CONSULTANCY SERVICES Dec 2015-June2016

* Analyzed data using SAP HANA by building calculated view, attribute view constraining the query’s response time and migrated data from ORACLE to SAP HANA. Executed SQL queries for reporting/dashboard
* Analyzed the data using time series analysis for forecasting company’s budget allocation to in-house projects.
* Created a website using Java, Angular JS, Hibernate and POSTGRES for a Healthcare company

**PROJECTS** To see all projects please visit my website at [www.learndatascience.yolasite.com](http://www.learndatascience.yolasite.com) or go to <https://www.github.com/aadishchopra>

**NATURAL LANGUAGE PROCESSING (HEALTH TWEETS):** <https://www.github.com/aadishchopra>/textMining

* Built a Web scraper in RSelenium to extract information like tweets, reposts, followers, following, likes etc.
* Cleaned tweets using tm package of R and using regex expressions
* Classified tweets using KNN and Latent Dirichlet Allocation in Alerts, General Information, Promotion etc.

**HADOOP (MWRD, CHICAGO):** https://github.com/aadishchopra/exploratory-analysis-for-MWRD

* Developed a 2 node cluster using Cloudera Hadoop for Metropolitan Water Reclamation District, Chicago, IL
* Datasets transferred from SQL server and correlation among given KPI’s was calculated
* Won 2nd Prize in the Student’s Project Expo and notable mentions by judges and faculty

**AMERICAN HEALTH ASSOCIATION:** https://github.com/aadishchopra/americanHealthInformationExchange

* Built statistical model to predict level of health information exchange among hospitals across United States
* Statistical techniques such as PCA, Discriminant analysis used to decompose the survey and reduce variables

**Research Intern (INTERN):** LOYOLA MEDICAL CENTER June-Aug 2017

* Develop models ODE, regression for Hepatitis B and Hepatitis D virus, explain the pharmacokinetics of drugs
* Used mathematical modelling techniques to explain Hep virus, immune cells and infected cells interaction