**VISHVNATH KUMAR**

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**Bank of America,**

**Sec - 21, Gurugram,**

**122016- India**

**WORK EXPERIENCE:**

**Bank of America, Gurugram [02nd August, 2017 – Present]**

* Currently working as a part of **EIT – Analytics** which comes under **Operation**. We are called as a **second line of** **Defense**. Our primary work is to ensure or validate whether all the processes or Businesses are complying with Law, Rule or Regulation (LRR) using Data.
* **Test Automation in Trifacta:** Automating all active **5000+** tests using **Trifacta** Data Wrangling Tool and trying to achieve Bank vision “**Test Everything Everyday**”.
  + End to end automation of **sampling and Testing** process
  + End result as Dashboard in **Tableau**
* **DCP Automation Tool:** Developed an automation tool which is based on **Python**.
  + Extracting data from various **disparate sources** (SQl database, SharePoint, Share Drive etc) and various file formats like PDF, Docs, excel etc automatically.
  + Comparing information from various documents and reporting the percentage of unmatched information in an automated fashion.
  + Exporting the result in any format Viz. Excel, CSV, Text, Share drive, Share point or SQL Database
* **Thematic Analysis (Predictive Modelling):** Developed a tool which is based on **R** to predict **Theme** of new Issue/RIsk.
  + Built a **Random Forest** Model on training data and applied on test data.
  + Deployed the above model in production environment.
* **Anomaly Detection using R:** A project to detect anomaly or some unusual pattern in the population.
  + To detect those account/sample which doesn’t follow rule
  + Applied **kNN (K – Nearest Neighbor)** in **R** to detect anomalous point
  + Helped to increase confidence interval and introduce one more check or validation before actual Testing.
* **Utilization Dashboard:** Developed a utilization dashboard which is based on **Excel**.
  + Detailed report of utilization of each individuals of the team
  + Helps senior leadership team and Managers to get detailed view of utilization of their reportee.
  + Helps senior leadership team to forecast bandwidth of each resource in the team so that they can get extra work from Stakeholder.

**United Health Group, Noida [04th November, 2015 – 15th June, 2017]**

* worked for **Decision Analytics & Reporting** team which comes under **Operation**
* Developed, deployed and validated **predictive models** for different business problems majorly with health care domain using **SAS** and **R**
* Used **Logistic regression** and **Poisson regression** modeling approach with **clustering** technique to assess the member experience of **health care campaigns.**
* **A Direct Comparison** considering various matrices like **subsequent Calls**, **Grievances**, **Voluntary Lapse, KMI/NPS, UES etcetera** between two different groups, one on which the program has been run and it was not run for other, to check whether a particular **healthcare Campaign** is effective to derive better member experience or not.
* Developed **ARIMA with Regression** Model for UHC and AARP Medicare apps data to forecast number of apps daily and weekly.
* **Text Mining:** Developed analytics framework for **Sentiment Analysis**, **Topic Modelling**, **Link Analysis** for KMI survey feedback data, which helped converting detractor population into promoter.

**Covacsis Technologies Pvt. Ltd, Mumbai** **[11th May, 2015 – 29th October, 2015]**

Worked as a **Statistical analyst** and enhanced product by developing (from designing algorithm to coding) few key performance indicators which helps to solve critical business problems of client

* **Root Cause Analysis:** Predict permanent coating formation in cement manufacturing industry in real time and suggested reason for this coating formation and its remedy
* **Loss – gain prediction:** A project considering manufacturing data to forecast average loss gain conversion cost during manufacturing process
* Used Time series analysis in **R** to forecast the next hour loss – gain and also found the reason behind it by identifying critical parameter
* Used **Benchmarking** to find the optimal range of Parameters and KPI
* **Generic Regression Model:** Built a library for various regression models which works almost all types of data.
* Linear Regression , Generalized linear Regression, Stepwise Regression, Subset Regression, Ridge Regression, Lasso , Linear mixed effect Regression, Generalized linear mixed effect Regression, Non parametric Regression etc
* Developed an **User Interface** (Dashboard) for all types of Regression using **R**

**INTERNSHIP AND ACADEMIC PROJECTS:**

* **Ministry of Statistics and Programme Implementation, Govt. of India, Delhi** [May-July2014]

**[Guide: Sh. Rakesh Kumar Maurya, Director, SSD, CSO]**

**Project: Analysis of Crime Statistics in India**

* Examined the Official Statistical System pertaining to data collection, processing and analysis
* Analyzed the data of traffic accidents in India using SPSS and MS excel
* Built and validated a model for Cyber Crime data using SAS
* **Delhi University Innovative Project** [2012-13]
* Worked in a one year project entitled **Mapping the Spatial Topology of two sub-glacier basins of NW Himalayas for multi class change detection using MODIS, LANDSAT and IRS data**
* Designed a questionnaire and conducted a survey on 500+ village locals on climatic changes
* Collected data through **G.P.S** (Global Positioning System) on the field trip of **Khatling Glacier**
* Analyzed **IRS** (Indian Remote Sensing ) data using **MS Excel** and **SPSS**

**EDUCATION**

Examination University Institute Year CPI/%

Post Graduation IIT Bombay IIT Bombay 2015 7.60

(M.Sc. Applied Statistics

and Informatics)

Graduation Delhi University Kirori Mal College 2013 84.12

(B.Sc. Statistics)

Intermediate/+2 BSEB College of commerce 2009 79.60

Patna

Matriculation BSEB Ram Babu High School 2007 80.20

**POSITION OF RESPONSIBILITY:**

* **Class Representative,** Applied Statistics and Informatics, IIT Bombay [March 2014- April 2015]
* **Leader of Logistic Team** Mathematics Olympiad [2014-15]
* **Coordinator, Howzzattt** Cricket Tournament at Kirori Mal College, **Delhi University** [2012-13]
* **Member of the Gender Sensitization Committee** Kirori Mal College, **Delhi University**  [2012-13]

**TOPICS OF INTEREST:**

|  |  |  |
| --- | --- | --- |
| Machine Learning | Artificial Intelligence | Natural Language Processing (NLP) |
| Regression Analysis | Data Structure & Algorithm | Time Series Analysis |

**TECHINICAL SKILLS:**

* **Programming languages:** C, R, Python
* **Software Packages:** SAS, SPSS, Trifacta, Latex
* **Microsoft Office:** MS Excel, MS Word, MS PowerPoint

**COMMUNITY WORK:**

* **Volunteered as a teacher** in the IIT Bombay initiative called **Abhyasika** [Feb 2014 - April 2015]
* **Helped** the organization in providing free education to under privileged students in Powai area

**EXTRACURRICULAR ACTIVITIES AND ACHIEVEMENTS:**

* Received **Gold Award** for exemplary contribution in the Text Mining project and DCP Automation tool at Bank of America [2017]
* Received **Bravo award** for innovative and exceptional work at United Health Group [2016]
* Received **Team Excellence Award** for working efficiently in the team at United Health Group
* Selected for  **Merit Cum Means** Scholarship in IIT Bombay [2013]
* Awarded Certificate of **Excellence** by **College Hostel** for excellent academic performance [2013]
* Secured **3rd Position (out of 300+ students)** in University of Delhi [2011]
* Volunteered as a member of Team Mathematics in **Tech-Connect** IIT Bombay [2014]
* Awarded the title of **Jewels of Hostel 16** IIT Bombay [2014]

**Declaration**

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Place: - New Delhi

**(Vishvnath Kumar)**