

VISHVNATH KUMAR

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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 (M.Sc. Applied Statistics and Informatics)	IIT Bombay	IIT Bombay	2015	7.60
Graduation (B.Sc. Statistics)	Delhi University	Kirori Mal College	2013	84.12
Intermediate/+2	BSEB	College of commerce Patna	2009	79.60
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)