Resume

MOHD KAMAL

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Career Objective

- Seeking a challenging role to secure my future in a reputed and dynamic organization that gives me opportunity to evolve and expand horizons on my technical experience.

Professional Summary

- Working in Accenture India from Nov 2018.
- Working in AI Capability Team.
- Working as a data Scientist in **Tata Consultancy Services** from August 2017.
- Worked at **HCL Technology** as a Data Analyst from Nov 2014 to July 2017.
- Working on Clustering Algorithms (**PAM, K-means, DBSCAN, Hierarchical** …etc.)
- Manipulating, cleansing & processing data using **plyr, data.table** packages in R.
- Data visualization using **ggplot2, plotly** packages in R.
- Familiar with Machine Learning models such as **Regressions, Decision Tree, Random Forest, K-NN.**
- Building Supervised and unsupervised machine learning models.
- Supplying qualitative and quantitative data to colleagues & clients
- Good Hands on Data Processing in R as well Python.
- Currently working on Coal Change Detection in Boiler Power Plant.
- Finding Optimum solution with help of **PSO** method, Full-factorial.
- Worked on R for more than 2.8 Years, Currently Working on Python.
- Effective communicator with strong leadership, problem solving and interpersonal skills.
- Team player who consistently supports management.

Technical Skills

- **Operating System** **:** UNIX, Windows, MS-DOS
- **Languages** **:** R, Python, Oracle
- **Scripting** **:** Python
- **Tools** : R Studio, Spyder, Jupiter, Putty, AWS
- **ETL Tools** : Infomatica

Experience Summary (4.3 years in IT Industry)

- Worked in HCL Technologies Ltd from Nov 2014 to July 2017 as a DATA SCIENTIST.
- Worked in Tata Consultancy Services from August 2017 to Nov 2018
- Working in Accenture from Nov 2018.
- Regularly interacting with customer to understand their requirements.
- worked in BFSI Domain for 2.5 Years.
- Currently Working on AI for Boiler Power Plant (EIS domain).

Projects Handled

Project #1

Organization : **Accenture**
Project title : AIP EdgeNext
Duration : Nov 2018 To Till Date
Role : Data Scientist
Algorithm Used : RF, Logistic, Knn ,Etc .
Technologies : Python , R , AWS

Project : Building Models Edge and Cloud Data for elderly living people to monitor health.

- Build model for monitor the Activity of Daily Living elders from sensor data and predicted Health of the person on Edge . this model is working on real time data.
- Building model for monitor health of elder person living in Oldage home on daily basis data and predicted there health status.

Project #2

Organization : **Tata Consultancy Services**
Project title : MHPS Analytics
Duration : Jan 2018 To Till Date
Role : Data Scientist
Algorithm Used : K-means, PAM, Hierarchical clustering .
Technologies : Python , R

Project: Clustering Approach for Classification Coal Types For Boiler AI Application

- Coal is playing an important role in thermal power plant for combustion. heat from combustion of the coal boils water in the boiler to produce steam, We have developed an AI which will automatically identify the coal property change and according to the property we will select the model (combustion Tuning) which will suggest the best optimum setting for boiler.
- The aim of this project is to develop Principle Component Analysis (PCA) based algorithm for clustering coal types based on its properties, which will be used to prevent spontaneous combustion in coal mines.
- This classification will be useful for the planners and field engineers for taking ameliorative measures in advance for preventing the occurrence of mine fires.

Project #3

Organization : **Tata Consultancy Services**
Project title : MHPS Analytics
Duration : Nov 2017 to Jan 2018
Role : Data Scientist
Algorithm Used : LSTM models
Technologies : R, Python

Project: Analysis of Deposition Rate in Air Preheater in Power Plant for Boiler

- The Main aim of this project is time series analyses of pressure measurements from air pre heater in coal fired power plant.
- The results from the time series domain is used to predict deposition rate in air pre heater.

Project #4

Organization	**:**	**Tata Consultancy Services**
Project title	:	MHPS Analytics
Duration	:	Aug 2017 to Nov 2017
Role	:	Data Scientist
Algorithm Used	**:**	PLS, Random Forest, SVM, Regression.
Technologies	:	R, Python

Project: Combustion Tuning for Boiler AI Application

- The client is one of the leading manufacturer of thermal power generation systems. The project involves building of Automated combustion tuning application for boilers using artificial intelligence. Combustion Tuning tests are carried out to optimize processes by adjusting parameters such as flue gas emission characteristics and others.

Responsibilities:

- Utilized combustion tuning data of boiler in the power plant to build efficient and accurate models using **machine learning algorithms**(**Supervised and unsupervised**) like **Regression, Decision tree, RandomForest** applying **feature selection methods(using caret and Boruta),** eliminating **correlated parameters**, data exploration and cleaning
- Model validation using **K-fold Cross Validation, Error metrics, Confusion matrix , ROC curve. Identify effect(trend) of individual variables through sensitivity analysis**
- **Steady State Identification** and **Extraction using R** and statistical methods on the Input parameters
- Multi-coal analysis and coal detection using **Data Exploration, Visualization, Modelling, Clustering**

Project #5

Organization	**:**	**HCL Technologies**
Project title	:	DB AOAM
Client	:	Deutsche Bank
Duration	:	April 2015 to July 2017
Role	:	Software Developer
Algorithm Used	**:**	Random Forest, SVM, Regression.
Technologies	:	R, Python

Project: Credit Risk Model:

- The model was developed to identify risky bank loans using decision trees. This analysis helps banks to tighten the lending process by identifying risky loans. Decision tree algorithm was used in this model to identify factors to find the higher risk of default.

Responsibilities

- Worked with project team to understand the problem and business requirements
- Worked on descriptive Analysis in R for exploring and understanding data
- Developed credit risk model to identify risky bank loans using decision tree algorithm
- Communicated results using presentations and visualization

Project #6

Organization	**:**	**HCL Technologies**
Project title	:	DB AOAM
Client	:	HCL Technology Ltd.
Duration	:	Jan 2015 to April
Algorithm Used	**:**	Random Forest, SVM, Regression.
Role	:	Data Analyst.

Project: HR Analytics

- HR analytics does not just deal with gathering data on employee efficiency. Instead, it aims to provide insight into each process by gathering data and then using it to make relevant decisions about how to improve these processes.
- Developing the models from extracted data by applying various concepts of machine learning and predictive analysis which could make a prediction with high probability and less error.
- Manipulating the data with the key factors like impact and relevance and developing the R code in order to generate a responsive model.

Educational Qualifications

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EDUCATIONAL QUALIFICATION

Examination	University/Board	Year	Aggregate
B. Tech (CSE)	BBDNITM (LUCKNOW)	2014	70.16%

Achievements

- Awarded "**Team of the month**" for extra-ordinary work done in **Coal Change Detection** and contribution for successful completion.
- Awarded "**Associate of The Month**" award in Jan 2018
- Actively participated and organized several events in the Company.

Key Strength

- Hard Worker, Logical Thinker, Self-Motivated & Quick Learner

Personal Information

Name	**:**	MOHD KAMAL
Father's Name	**:**	MR**.** YASHIN
Date of Birth	**:**	05 JULY 1990
Languages Known	**:**	ENGLISH AND HINDI.
Contact No.	**:**	+91**-7892198023,** 8861459922
Permanent Address	**:**	PAREWATAR, AHIRAULI BAZAR, KUSHINAGAR UTTAR PRADESH

DECLARATION: - **I hereby declare that all the above facts are true to best of my knowledge.**

Place: Bangalore **(MOHD KAMAL)**
Date: 21-02-2019