

Parshwanath A

Personal info



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Profile

A Data Scientist with strong math background and experience in big data, machine learning, predictive analytics and statistics. I am passionate about making a significant impact on the business using Data science and analytics.

Highlights

- Skilled professional in **Machine Learning | R | Predictive Analytics | Regression | Random Forests | Unsupervised Learning | Supervised Learning | Big Data | Hadoop | Hive | Spark | Artificial Intelligence | SVM | Product Pricing | VBA | Genetic Algorithm | Neural Networks | CNN | Deep learning | Tableau**
- Filed an **IPR** (Intellectual Property Right) on an enhancement to the CSCF.
- Instrumental in demonstrating the unique features of CSCF and virtualized IMS NEs through KPIs and live graphs to the client and helped Nokia bag a couple of **customer deals - 2013 & 2014**
- Marketed the IOT sensor product to the hospitality industry using **Value Based Argumentation** and was instrumental in helping the company **bag multiple deals**
- Scored a 96.36 percentile at my first attempt in CAT, in the year 2013. My score was amongst the **top 4%** of 1.75 lakh CAT takers.
- Applied the machine learning techniques and artificial intelligence for stock predictions

Work experience

Nokia
Bangalore
India

Research & Development Engineer

07/2015 - present

- Machine Learning: Linear Regression, Logistic Regression, Random Forests, SVM, Clustering, K-NN, Decision Trees, Ensemble techniques
- Big Data Technology: Hadoop, Map Reduce, Hive, Spark, Storm.
- Languages/Scripting: R, Python
- Database: SQL, HDFS
- Networking Protocols: SIP, DIAMETER
- Tools: RStudio, Jupyter, Eclipse, Putty, Jenkins, Panda, Tableau

Project 1: CEMoD:

Synopsis: The Customer Experience Management on Demand application uses the raw parameters and data generated from the field to predict the customer experience by generating reports and graphs related to Voice, Messages and Data, which in turn offers a great deal of help to the clients to offer the end users with a greatly enhanced mobile experience.

Work experience

Data Description: Raw high volume and high dimensionality telecom data from the service providers about the customers.

Techniques used: Clustering, Regression.

Software Environment: R, Python (pandas)

Project 2: HVCI - Dynamic User Segmentation:

The project deals with segmenting the customers based on the data metrics into defined groups such as high ARPU, VIP and Enterprise customers who, although, a mere 5% of the customers, contribute a whopping 70% of the company's total revenue.

Key Contribution: Part of the team using clustering techniques at different types of data received from the field.

Platform: Hadoop (with Spark and Hive)

Scripting: R

Machine Learning Techniques: Unsupervised learning, Clustering

Project 3: Customer Experience Index (CEI):

CEI is a metric that presents the "actual customer experience" from the subscribers' point of view measured through KPIs and KQIs, CEI gives a per subscriber insight.

Key Contribution: Here, the important features were chosen using Random Forests and the Customer Experience Index is predicted using Regression.

Platform: Hadoop (with Spark and Hive)

Scripting: R

Machine Learning Techniques: Random Forests and Regression

Project 4: Bigdata:

This project involves configuring and setting up a Hadoop cluster (Cloudera and WANdisco) and verifying end to end correctness of the solutions implemented in CEMoD

**Nokia
Bangalore
India**

R & D Engineer

07/2012 – 07/2015

Project: IMS

Technology: SIP, IMS

Synopsis: Nokia provides access independent IMS solution for VoLTE service providers with its core IMS elements CFX-5000 (P-/I-/S-CSCF), CMS-8200 (HSS), OpenBGW and ACME BGW, TAS (Telephony Application Server) and PCS-5000 (PCRF).

Summary:

- End to end validation experience on Telco Network Elements like CSCF, HSS, DRA, NT-HLR, NetAct, IMS virtualization.
- Filed an IPR on an enhancement to the Telco Network Element CSCF.
- Involved in automation of features using IPSL, selenium and ROBOT.
- Involved in end to end lab setup for entire IMS solution which includes installation and configuration of P-CSCF, I-CSCF, S-CSCF, and ACME BGF & OpenBGW.
- Owned the End to End System Verification responsibility of delivering over 8 features

Key Takeaways from the project:

- Knowledge of end-to-end network architecture of 2G, 4G and VoLTE network
- The unique experience of working further to **file an IPR on a product idea.**



Work experience

- Point of contact for all the customer issues and escalations arising out of the field.
- Played a significant role in the **Customer demo** teams to help **bag several deals** for the company

PhotoElectricChefs (Startup) Bangalore India	Business Development Role <div><ul style="list-style-type: none">• Product was redesigned from scratch to suit the B2B audience• Surveys conducted to understand the real needs of the target market• Product pricing strategy was done using Value Based Argumentation• Product was demonstrated to hospitality sector and couple of important deals won</div>	02/2012 – 03/2013
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Education

CMR Institute of Technology Bangalore India	B.E in Electronics and Communication <div>Served as a secretary of ETA - Electronics & Technical Association (2011-2012) Worked on a payment gateway system with Texas Instruments Worked on a Terrain Awareness Warning system with Hindustan Aeronauticals Limited</div>	06/2008 – 06/2012
Certificate Program in Big Data Analytics & Optimization Bangalore India	Statistical Analysis and Machine Learning <div>Pursuing Certificate Program in Big Data Analytics & Optimization at International School of Engineering, Hyderabad. The program is certified by Languages Technologies Institute of Carnegie Mellon University for the quality, assessment and pedagogy of its course content.</div>	12/2016 - present
Certification URL : http://www.insofe.edu.in/		



Skills

Business Skills

Communication Skills	●●●●○
Marketing	●●●○○
Product Pricing	●●●○○
Leadership Skills	●●●●○
Business Development	●●●○○
Presentation Skills	●●●○○
Value Based Argumentation Skills	●●●●○