Ramanuja Rao Kotaprolu

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Professional Summary

- Over three and half years' experience in predictive modeling on big-data using Machine Learning and Statistical Modeling.
- Have worked in Banking and Health Care Analytics. Familiar with an array of data mining software suites and expertise in **R**, **Weka**, **Rapid Miner**
- Have used Pig, Python, Java, Hive and Pentaho for data preparation..
- Intermediate mapreduce programming skills
- At IDRBT, a research institute for Reserve Bank India, has reinforced *Academic Knowledge* and fostered Critical and Research oriented thinking, Presentation Skills also have been my forte.

Experience

Executive Data Analysis at Valuelabs for over a Year. (Present)

Research Associate at IDRBT

Data Analyst at Peritus Infotech Private Limited.

Highest Degree

Bachelor of Technology, Computer Science & Engineering. *SRM University*

Skills & Expertise

Analytics Suits: R, Weka, IBM SPSS Modeler, SAS E-Miner, Knime, Rapid Miner.
Machine Learning: Artificial Neural Networks, Random Forest, Support Vector Machine,
Languages: R, Java, Python, Scala, C++.
Hadoop: Pig, Hive, Mapreduce,Pentaho

Projects

Patient Risk Score prediction using Machine Learning

Inpatient Admission Prediction

Predictive Modeling for Churning behavior of Bank Customers

Predictive Modeling for Loan Default Prediction

Market Basket Analysis, Cross-sell - Up-sell

Analysis the Customer Migratory Behavior using Clustering

Evolutionary Fuzzy Cognitive Maps for Credit Scoring & Classification

- FCM (Fuzzy Cognitive Maps) has been long used for Prediction in various domains like Medicine, Agriculture, and SocialSciences. This project aims at customizing the FCM by combining other Evolutionary techniques, Statistical Techniques and Computational Techniques to make FCM more reliable and efficient modeling method for use Customer Analytics, Specifically for Credit Scoring.

Research Projects

- Hidden Markov Models (HMM) for Classification: HMM has been used as an efficient pattern recognition Algorithm, The project is to use HMM for pattern classification.
- Quantile Regression for more Accurate Predictive Modeling
- PSOAANN (Particle Swarm Optimization Auto Association Neural Network) as Classifier

Cursor Navigation Using EEG signals

- The project is an implementation of Brain Computer interface (BCI).
- The EEG device captures the electrical signal produced by the user and relays it to the computer. The signal is sampled,Processed and is scanned for patterns. The cursor moves on the Screen according to the observed pattern.
- The Signal Processing and Pattern recognition is achieved using "OpenVibe". The cursor movement is handled by a module coded in C++. The BCI is also, simulated using Matlab.

Education

SRM Institute of Science andTechnology

Bachelor of Technology, Computer Science &Engineering, 2008 – 2012

Vignan Junior College

Intermediate Education, Mathematics, Physics, Chemistry, 2006 – 2008

St. Johns Hr. Sec School

10th Standard, 10th Standard, 1999 - 2006

Activities and Societies: Active participation in Science club, enthusiastic in Quiz competition

Languages

English (*Native or bilingual proficiency*)
Telugu (*Native or bilingual proficiency*)
French (*Limited working proficiency*)
Hindi (*Limited working proficiency*)
Tamil (*Limited working proficiency*)

Interests

Cognitive Computation, Knowledge Engineering, Cognitive Science, Theoretical Physics, Mathematics, New Technologies, Artificial Intelligence, Neural Networks, Machine Learning, Philosophy, Linguistics, Philomath (Liking of Learning), Book Reading.