Madhura Murthy

Machine Learning Engineer

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Professional Objective

Machine Learning professional with over 2 years of experience in Data Modelling and business insight generation for an enterprise facilities management start-up. Currently looking for a challenging environment where I can apply my technical experience and broaden my exposure to different business domains.

Competencies and Skills

- Python
- R Programming
- MySQL
- SPSS
- Data Mining
- Data Cleansing
- Data Visualisation
- Problem Solving
- Collaboration

EXPERIENCE

Machine Learning Engineer

Facilio Technology Solutions Limited, Chennai Jan-2018 –April-2020

- Analyzed and processed complex data sets using advanced querying, visualization and analytics tools
- Developed automated data cleaning process for the onboarding purpose which reduced the process time by 50%
- Detect and diagnose anomalies in the building's energy use i.e. the extent to which building equipment's cause abnormal energy use and the extent to which internal and external factors determine the energy use of building equipment using Generalized Additive Model
- Developed Multiple Linear Regression model to predict the dependent variable and to get the relationship between dependent and independent variables which was scripted generically so that customers can choose the required variables and find the relationship equation with the R^2 value
- Detect anomaly for HVAC system variables using unsupervised learning algorithm and computed ratio contribution for each variable with 90% accurate results
- Developed sensor fault detection and diagnosis algorithm which reduced the false alarm of anomalies by 80% and also helped in sensor health management.

Postgraduate Study Internship

YRG Centre for AIDS Research and Education

- Postgraduate study was on the topic – 'Applications of survival analysis and growth model techniques to study the Anti-Retroviral Therapy (ART) progression and mortality pattern of HIV infected patients using Natural History study database'.
- Three phases of the study (i) data collection and analysis (ii) application of statistical methods (iii) inference generation based on research.
- Collected secondary data from YRG Centre for AIDS Research and Education and applied suitable statistical analyses such as survival analysis, multivariate analysis of variance, fitting of probability distribution and control charts. Through this extensive research I was able to decipher interesting inferences that fed into a broader research on the survival of HIV infected patients.

Educational Qualification

- **Master of Science, Bio-Statistics**
June 2015 – May 2017, SDNB Vaishnav College for Women
GPA– 9.6

- **Bachelor of Science, Statistics**
June 2012 – May 2015, SDNB Vaishnav College for Women
GPA – 8.9