



Guide on Way to approach a Machine Learning problem

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Abstract:

Today, algorithms are like buzz words. Everyone is going for learning different kinds of algorithms – logistic regression, random forests, decision trees, SVMs, Gradient boosting algorithms, neural networks etc.. Everyday new algorithms are being made. But Data Science is not just applying different algorithms to the data. Before applying any algorithm, you must understand your data because that will help you in improving performance of your algorithms later. For any problem one needs to iterate over the same steps- data preparation, model planning, model building and model evaluation, for improving accuracy. If we directly jump to model building, we end up directionless after one iteration. Following are few defined steps per me for approaching any machine learning problem:

Biography:

I am a Data Scientist with a demonstrated history of working for Yamaha for two years. Currently I live in Japan and am actively working on different machine learning problems all over Yamaha. I am active user of LinkedIn, Kaggle and Analytics Vidhya. I have done Bachelors in Technology from BIT Sindri, Dhanbad with Computer Science branch. Some of my achievements are: I am win-



ner of IGNITE Award all over India for Innovative ideas which is announced on the birthday of Dr. A.P.J. Abdul Kalam. I got felicitate by Dr. A.P.J. Abdul Kalam himself for the same. I have one patent till now for my prototype of User Friendly Pedal Rickshaw. I have also been second runner up in Smart India Hackathon which is the world's largest hackathon organized by Government of India and MHRD. I have always been keen on learning on something new. This accounts for my numerous courses that I have done and tried to implement till now. Currently I am trying to learn Japanese to ease my life in Japan.

Recent Publications:

- 1) <https://www.datacamp.com/community/tutorials/categorical-data>
- 2) <https://www.kaggle.com/mansipriya/missing-values-handling>

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