Abhishek Malali

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EDUCATION

Harvard University   Cambridge, MA
Master of Engineering in Computational Science and Engineering, GPA: 3.8/4.0   August 2015 - May 2017
- Coursework: Data Science, Machine Learning, Parallel Computing, Stochastic Optimization, Systems Development for Computing, Extreme Computing, Artificial Intelligence
- Graduate School of Arts and Sciences Commencement Marshal, IACS Scholarship Awardee

National Institute of Technology - Karnataka   Surathkal, India
Bachelor of Technology in Electrical and Electronics Engineering, GPA : 9.50/10.0, Class Rank: 1   May 2014
- Relevant Coursework: Probability Theory, Soft Computing, Random Signal Processing, Linear Algebra
- Awards: Institute Gold Medal 2014, O.P.Jindal Engineering and Management Scholarship 2010, 2012, 2013

PROFESSIONAL EXPERIENCE

Tribe Dynamics   San Francisco, CA
Data Scientist   July 2017 - Present
- Applying Natural Language Processing for text classification tasks and building ETL pipelines for handling text data streaming.
- Building internal tools for recommendation tasks and data visualization.
- Spearheading internal research on trends in social media networking.

Harvard University/University of Chile/Catolica Data Science Exchange   Cambridge, MA
Graduate Student Researcher   December 2015 - May 2017
- Modified the LSTM module to learn from irregular time series and generate predictions. Added a secondary module for regularizing and removing autocorrelation from the residuals in time series prediction as a part of the thesis research.
- Published a Github package TimeFlow for quick implementation of time series prediction models in TensorFlow in collaboration with H2O.ai.

H2O.ai   Mountain View, CA
Data Science Intern for leading open-source enterprise level machine learning startup   May - August 2016
- Integrated hyper-parameter optimization with H2O and benchmarked different hyper-parameter optimization methods for H2O AutoML.
- Built custom functions for extending H2O's munging capabilities and replicating pandas functionalities on a big data scale.

PROJECTS

Machine Learning in Spark   December 2015
- Implemented random forests and ordinal regression in Apache Spark from scratch. Ordinal Regression functionality did not exist in MLLib which is the standard ML Library in Spark.

How to ask questions?   May 2016
- Evaluated two different questioning schemes for multiclass labeling problems. Generated data with a confusion matrix for each expert, and an underlying class distribution. Attempted and successfully recovered both parameters and the true labels. Methods used were Expectation Maximization, PyMC and Simulated Annealing.

Quantitative Analysis of Soccer Player Performance   December 2015
- Studied the current soccer transfer market and perceived the valuation on the subjective measures like the league and the club. In addition we created a metric to assess players on the impact they create during the match.

SKILLS AND INTERESTS

- Programming : Python, Tensorflow, Theano, SQL, PySpark, H2O, MATLAB, D3, Latex, Unix
- Leadership: Harvard Graduate School Leadership Institute Cohort IX, Teaching Fellow for Data Science (CS209)