PRIYANK BHATIA

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ACADEMIC QUALIFICATION:

New York University, Centre For Urban Science and Progress   *Graduation-Jul 2015*
Masters of Science (Informatics and Data Science)
Coursework: Data Science, Big Data, Deep Learning

Thapar University, Punjab, India   *2008-2012*
B. E. (Computer Science)
Coursework: Data Structures and Algorithms, Machine Learning

TECHNICAL SKILLS: Python, R, SQL, C++, JavaScript, AWS, Map Reduce, Hadoop, Pig, Hive, Scipy, Pandas, Supervised & Unsupervised Learning, Deep Learning.

PROJECTS:
- **Restaurant Recommendation System:** Used 10 year Yelp dataset having user restaurant interactions and created a recommendation system by doing feature engineering and modelled them using different machine learning techniques SVM with RBF Kernel, Linear SVM and Logistic Regression. Handled overfitting by using Linear SVM which proved to be the marginally better than other models. Improved the baseline accuracy by 5%. Programming: Python
- **Prediction of Sales of Products using Listings**: Machine Learning techniques were used to predict sales of products using keywords and sales volumes. Feature Selection was done with Aikaike information criterion (AIC) and Logistic Regression and SVM with different kernels were used for modeling. Model selection was done using various experiments with cross-validation. Programming: Python
- **Predict rating for a Yelp Review:** ConvNets can achieve astonishing performance over conventional methods without the knowledge of words, phrases, sentences and any other syntactic or semantic structure. Key Modules: Character Quantization, 1D Convolution, Temporal Max Pooling and Rectified Linear Units. Keywords: Lua, Natural Language Processing, Deep Learning Experiments.
- **Taxi Economics in NYC:** Processed Taxi and Census data (500GB) for NYC using Hadoop Streaming with Python and also used PIG with AWS to derive analysis how taxi tips vary with seasons and income groups. Performing statistical analysis and machine learning on this dataset. Programming: Python
- **911 Call Spatial Cluster Detection:** Working with 911 calls dataset to discover emergency call (anomaly) behaviour using Scan Statistic models for finding spatial regions of unusual activity. This work was done with in collaboration with New York Police Department. Programming: Python

PROFESSIONAL EXPERIENCE:

Medidata Solutions, New York   *Jun'15-Present*
Data Science Intern
- Medidata Solutions is a global leader in clinical trials software and currently working on applying data science to Patient Reported Outcomes.

Switch Inc, New York   *Jan'15 –May'15*
Data Science Intern
- Switch (http://www.switchapp.com) is a high growth funded start-up connecting Job seekers with employers with easy to use mobile app. Responsible for quantitative analysis of Job Seeker swiping behaviour and worked on recommendation algorithm using collaborative filtering.

ZS Associates, New Delhi, India   *Sep'13 –Jul'14*
Associate, Business Technology Group/Data Science Group
- Closely collaborated with the a US based Retail Ecommerce Giant. Worked on predicting high value customers using survival and lifetime value analysis based on user attributes and behaviors.

KPMG, New Delhi, India   *Jul'12 - Aug'13*
Analyst, Technology Advisory
- Worked with a client on understanding Spatial Patterns of Urban Innovation and Productivity in United States with focus on Patents and Economic Development. This work was done in collaboration with KPMG US and NYCEDC. Used Python, SQL, Tableau and CartoDB as tools for data analysis.

https://github.com/pb1672
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