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Education

***Masters in Information Systems Management, Heinz College, Carnegie Mellon University May 2017***

**Relevant coursework:** Machine Learning (ML), Practical Data Science, Research in Data Science, Data Structures, Math for ML, Econometrics, Distributed Systems, Statistics and Database Management.

***Bachelors in Information Technology, SRM University, Chennai Apr 2013***

Skills

**Scripting and querying Languages:** Python, Java/J2ee, C++, JavaScript, HTML, SQL, MongoDb.

**Tools:** MiniTab, Android Studio, Jupyter notebook, Amazon EC2, Stata, Tableau, Excel, Eclipse, IBM Web sphere.

**Frameworks:** React.Js, Spring, Android, Apache Camel, Apache Hadoop, Apache Spark.

**Machine learning/ Scientific programming:** Numpy, Scipy, Sci-Kit learn, Pandas, Keras, Theano.

Academic Projects

***Demand Forecasting Singapore Taxi coverage based on Public Traffic Movements*** ***Jan 2016-Present***

* Developing a Machine Learning model to maximize the supply patterns of taxicabs in Singapore to fill the gaps of city’s deterministic public transport network.

***Department of Justice’s Crime Reduction Network- New Orleans Police Dept.(NOPD) Jan 2016-Present***

* Working with Director of Analytics at NOPD to develop a data-driven model that improves department’s response times for emergency calls and increase the level of community-oriented policing.

***Machine Learning and Deep Learning Tutorials Sep 2016- Present***

* Tutorials are published on my website as blogs. Each tutorial focuses on multiple aspects of solving a problem right from baseline to complex model selection followed by parameter tuning, data visualization and result interpretation.

***Airbnb price prediction tool Sep 2016- Dec 2016***

* Created a pure python tool which predicts the price of an Airbnb listing based on its features and locational significance; Also considers competitor pricing and accordingly suggests a price and provides information like other nearby Airbnb listing price stats and advertisement suggestions.
* Performed hyper-parameter tuning with selected models and achieved accuracy score of 70% with limited dataset for the City of Pittsburgh.

***Hilti Quiz-Train Aug 2015- Dec 2015***

* Created Hilti Quiz-Train, a native android application for Hilti mobile challenge 2016.
* Developed the backend using Spring Data framework and Synchronous Volley Framework. Responsible for material design philosophy adherence in mobile app. Completed second in the competition which saw a participation of over 120 teams around the world.

Professional Experience

***SingTel DataSpark Analytics, Singapore Data Engineering Intern Summer 2016***

* Created an interactive Apache Spark Job configurator tool from the scratch using React.Js and Spring Data framework in an agile environment to auto-write ETL spark job configuration files.
* Reduced job failures by 40%. Exported the tool as a proprietary of DataSpark to its clients with documentation and tutorials.

***Tata Consultancy Services, Chennai, India Assistant Systems Engineer, Jun 2013 – May 2015***

* Held accountable for project estimation, use-case design, development, performance testing and rollout activities of a critical data integration project for a US based retailer.
* Optimized data transformations to facilitate large scale data transfer from client systems to enterprise cloud. Data movement efficiency was 99% which reduced data reconciliation process for the client.
* Actively involved in developing and documenting proof-of-concepts with data transformation and processing frameworks like Apache Camel which was later utilized across the client projects as boilerplates.
* Received Technical excellence award for successfully completing three of the eight major releases in the project.

Publication and Extracurricular Activities

* Automated Sentiment Analysis on Online News Feeds, Publisher- IRNET GRET International Journal ISSN 2320 –6632, Vol-1, Iss-2, 2013.
* **MOOC:** Deep Learning for Coders by FastAI, Intro to Apache Spark by Edx, Model Thinking by Coursera, Stanford CS231N