5217, Fifth Avenue +1-(412)-326-8443

Unit 5, Pittsburgh, PA 15232 [karthikb@andrew.cmu.edu](mailto:karthikb@andrew.cmu.edu)

<https://karthikbalasubramanian.github.io>

Karthik Balasubramanian

Summary

* A passionate Data enthusiast with experience in handling critical Data integration, Software engineering and product development projects.
* I am trained in developing intelligent data products using the right Machine learning algorithms with a scalable technology suite given the dataset. In addition, I can also reason the anomalous behavior of algorithms when expected does not happen.
* Result oriented, self-driven team player with abilities to handle multiple assignments at a time.

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, Digital transformation, Distributed systems, Mobile app development and Database Management.

**MOOC:** Deep learning for coders by FastAI, Introduction to Apache Spark by Edx, Python by Edx.

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

Skills

***Technical Skills***

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

Tools: MiniTab, Android Studio

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

***Business Skills***

Problem solving, hypothesis definition, use-case design, market research and Business Analysis.

Academic Projects

***Airbnb price prediction tool September 2016- December 2016***

* A pure python tool which predicts the price of an Airbnb listing based on its features and locational significance. It also considers competitor pricing and accordingly suggests a price.
* In addition, it provides information like other nearby Airbnb listing price stats and advertisement suggestions.
* Performed cross validation and achieved accuracyscore of 70% with limited dataset for the city of Pittsburgh.

***Altair Viz – A data visualization tutorial September 2016- October 2016***

* Designed a tutorial for Altair-Viz, a new upcoming visualization library. Tutorial also gives a brief history on descriptive programming languages and evolution of visualization libraries.

***Hilti Quiz-Train August 2015- December 2015***

* Hilti Quiz-Train is a native android application developed 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.

Experience

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

* Created an Apache Spark Job configurator tool from the scratch in an agile environment to automate the creation of complex ETL job configuration files.
* Exported the tool as a proprietary of DataSpark to its clients with documentation and tutorials.

***Assistant Systems Engineer, Tata Consultancy Services, Chennai June 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.
* Actively involved in developing and documenting proof-of-concepts with data transformation and processing frameworks which was later utilized across the client projects as boilerplates.
* Received Technically excellency award for successfully completing three of the eight major releases in the project.