

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.
- Self-driven, motivated, Open minded, 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.

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, Algorithms, hypothesis definition, use-case design and Business Analysis

Business Skills

Effective Communicator, Team player and a good listener.

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 accuracy score 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.