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# Anil Muppalla

http://anilmuppalla.me/

## Employment

**Data Engineer** — **Spotify, USA** — **Jan 2017 - Present**

- Building and maintaining real time streaming infrastructure
- CI/CD platform for real time pipelines
- Maintaining event schema evolution system
- Developer advocate for Google Stream Processing solutions
- Continuously assisting feature teams building fast and reliable streaming pipelines

**Data Engineer, Intern** — **Spotify, USA** — **Jun 2016 - Aug 2016**

- Helped build anomaly detection in real-time stream pipelines.
- Assisted in monitoring and maintaining existing backend infrastructure
- First iteration of Avro Schema Lookup Service for encoding and decoding Spotify client events at scale
- Worked with customers and internal consultants to solve problems and fixing bugs

**Graduate Researcher** — **Georgia Institute of Technology, USA** — **Aug 2015 - Dec 2016**

- Supervised 25 students in Vertically Integrated Program
- Helped develop and deploy data warehouse system containing anonymized student learning data
- Teaching assistant for Data Driven Education course
- Helped drive data discovery and build a data glossary

**Co-Founder and CEO** — **IMAGS Technological Solutions Pvt Ltd, India** — **Jan 2013 - Jun 2015**

- Design and development of data management and analytics solutions for educational institutions providing effective course management and student analytics.

## Education

**MS Computer Science, 3.8/4.0** — **Georgia Institute of Technology, USA** — **Aug 2015 - Dec 2016**

**BS Computer Science, 8.96/10** — **M S Ramaiah Institute of Technology, India** — **Aug 2007 - Jun 2011**

## Technical Experience

### Co-Authored Book

- *Guide to High Performance Distributed Computing*. Published by Springer, 2015 – Tutorials on Hadoop, Scalding and Spark with implementations of several machine learning techniques along with a Movie Recommender System project.

### Projects

- *MAC - Music Augmented Conversation* - Slack bot that integrates Spotify API and MusixMatch API that provides searching for music based on lyrics (2016).
- Deep data analysis of the Wine Quality and Wall-Following Robot datasets using various ML techniques like Supervised, Unsupervised, Randomized Optimization – Applied Reinforcement Learning techniques like Value Iteration, Policy Iteration and Q-Learning to train an agent to traverse a MDP - RLSIM, Weka (2016)
- *Recommend Photo Filters* for Instagram Images – Python Flask, JavaScript, Instagram API's (2016)
- *EasyMeet* - Location aware solution for a group of people - Android, Google Places (2015)
- Linear Regression, K-Means, Naive Bayes, Gradient Descent Algorithms - Scalding, Spark (2015)

### Publications/Book Chapters/Journals

- Malavika Jayanand, Anil Kumar Muppalla, K G Srinivasa, G. M. Siddesh. *Big Data Computing Strategies* In: HandBook of Research on Securing Cloud - Based Databases with Biometric Applications, IGI Global, 2015.

- Anil Kumar Muppalla, Pramod N, K G Srinivasa. *Efficient Practices and Frameworks for Cloud based Application Development*. In: Software Engineering Frameworks for Cloud Computing Paradigms, Springer 2012.
- Pramod N, Anil Kumar Muppalla, K G Srinivasa. *Limitations and Challenges in Cloud based Application Development*. In: Software Engineering Frameworks for Cloud Computing Paradigms, Springer 2012.
- K.G., Srinivasa, Anil Kumar Muppalla, Bharghava Varun A, Amulya M. *MapReduce Based Information Retrieval Algorithms for Efficient Ranking of Webpages* In. IJIRR 1.4 (2011): 23-37. Web. 6 Nov. 2012
- Aman Vora, M. Anil Kumar, K. G. Srinivasa, *Low Cost Internet of Things based Vehicle Parking Information System* In: Proceedings of the 6th IBM Collaborative Academia Research Exchange Conference (I-CARE) on I-CARE 2014, ACM, New York, NY, USA.

### Grants

- Research on Low Cost Smart System to Manage Traffic and Movement of Emergency Vehicles, 2010 IEEE Humanitarian Challenge, September 2010 to November 2010.

## LANGUAGES | TECHNOLOGIES

- Java; Scala; Python
- Google Pub/Sub; Google Dataflow; BigQuery; Tableau; Hadoop; Spark; Scalding; Android; D3; Python Pandas