Manu Sreekumar

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SUMMARY: Data science Graduate student with 5 years of professional Software Development experience in Banking and Financial Domain. Strong problem solving, public speaking and leadership skills with a deep-rooted passion for data driven analytics.

EDUCATION

- **Masters of Science: Data Science**
  Illinois Institute of Technology   GPA: 3.67   Aug 2017 - present

- **Bachelor of Technology: Electrical and Electronics**
  Federal Institute of Science and Technology   GPA: 3.5   Aug 2008 - June 2012

SKILL SET

Languages: Python (NumPy, SciPy, pandas, scikit-learn), R (dplyr, ggplot2, caret), Scala, Java, C#, Scala, SQL, VBA, C, C++.
Databases: Ambari, Apache Hadoop, MapReduce, HBase, MongoDB, Pig, Hive, Cassandra, MySQL, PostgreSQL.
Tools/Platforms: Microsoft Azure, HDFS, Spark, GraphX, MATLAB, MS Excel, Gephi, Tableau.
Certifications: Competent Communicator and Leader Certifications - Toastmasters International.
Other: Expertise in Frequentist and Bayesian Statistics, Predictive Analytics, Machine learning models and Algorithm Optimization

WORK EXPERIENCE

Tata Consultancy Services, Kochi, India
Banking and Finance

Software Analyst Lead   Sep 2015 – July 2017
- Successfully delivered mission critical production enhancements for **American Express** banking software with high quality.
- Drove the projects across various phases of software development lifecycle such as planning, design, implementation, release and support.
- **Trained** over 50 in-house software engineers and clients on automation frameworks, object-oriented languages and banking software platforms.
- Represented the company in decisive client presentations and coordinated with various stakeholders for improving the solutions.
- Championed **Analytics driven** business ideas and presented talk on **Machine Learning** at TCS Client Conference

Automation Engineer   Nov 2012 – Aug 2015
- Designed and implemented **Hybrid automation framework** for mission critical banking functionalities.
- Reduced the operating and testing costs by 50 percent through successful implementation of automation solutions during production releases.
- Direct interaction with clients across the world to provide solutions using **banking domain knowledge** and **automation expertise.**

ACADEMIC PROJECTS

Loan Default Prediction Using Logistic Regression, Illinois Institute of Technology   Aug 2017 – Dec 2017
- Developed an advanced predictive model for providing the loan eligibility criteria using Logistic Regression and Decision Trees.
- R packages were employed to carry out data exploration, cleaning, training, testing and comparing KPIs of the models.

Telecommunications Data Analysis using Spark GraphX, Illinois Institute of Technology   Aug 2017 – Dec 2017
- Build Graph for analyzing interaction strength using Spark GraphX in Microsoft Azure platform for the city of Milan.
- Implemented various graph operations like Page Rank, Aggregated Messages and Pregel API to identify key stations and interaction patterns.

Comparison of Prim's and Kruskal's Algorithm in Graph Structures, Illinois Institute of Technology   Aug 2017 – Dec 2017
- Developed a Java application to compare Prim's and Kruskal's algorithms for finding minimum spanning trees in graph structures.
- Employs Union-Find in Kruskal's and Minimum Heap in Prim's to identify MST's.

Energy Auditing, Federal Institute of Science and Technology   Jan 2012 – Apr 2012
- Successfully lead project team for Energy Auditing of university campus using extensive field research and data analytics.
- Analyzed and identified key features that governed power consumption patterns using MATLAB for devising ways to improve energy efficiency.
- Successfully presented a final thesis that put forth measures to improve energy efficiency by 21 percent in future years.

AWARDS AND RECOGNITIONS

- **Second prize** in TCS – American Express Hackathon, Tata Consultancy Services – February 2016
- "**Maitree Prize**" (Awards for Excellence), Tata Consultancy Services – December 2013,2014,2015.
- "**Bravo award**" (For Outstanding Dedication, Service Above and Beyond the call of duty), American Express – July 2015.

ADDITIONAL DETAILS

- **Past President of Toastmasters Club**, TCS Charter, Kochi.
- **Public Speaking enthusiast** - Organized training sessions and cultural events to promote the art of public speaking.
- **Acting and Playwriting** - Won numerous accolades for organizing street dramas and plays towards raising **social awareness.**