**Manu Sreekumar**

Chicago, IL – 60616 | 603-205-5986 | msreekumar@hawk.iit.edu [|](https://www.linkedin.com/in/manu-sreekumar-772b353a) <https://www.linkedin.com/in/manu-sreekumar>

**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, NLTK, 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, MS PowerPoint, 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

# 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.

**Public Safety Crime Analysis of Universities in Chicago Area, Illinois Institute of Technology** Jan 2018 – Apr 2018

* Conducted an in-depth data exploration of public safety and weather data for University of Chicago and IIT for three-year time period.
* Studied the patterns of incidents with campus location, time and weather using Naïve Bayes and Decision Tree Prediction modelling.
* Employed R for web scraping, data munging and performed advanced visualizations to plot crime density of campus and surrounding areas.

**Fake News Identification in Reddit Platform, Illinois Institute of Technology** Jan 2018 – Apr 2018

* Conducted social network analysis of Reddit Posts to understand the key characteristics of fake news propagation.
* Extracted user karma points, activities, subreddits, comments, upvotes and relevant posts information using Reddit PRAW Python API.
* Performed natural language processing and classification of texts using NLTK, and prediction models of relevant features using Python packages.

**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 softwarewith 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.**

# 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.**