**Manu Sreekumar**

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**SUMMARY**: Currently pursuing Masters in Data Science with 5 years of professional Software Development experience in Banking and Financial Domain. Strong problem solving, public speaking and project management skills with an expert knowledge of data driven analytics.

# EDUCATION

**Masters of Science: Data Science** Illinois Institute of Technology Aug 2017 – May 2019

**Bachelor of Technology: Electrical and Electronics** Federal Institute of Science and Technology Aug 2008 – June 2012

# SKILL SET

**Languages**: Python (NumPy, SciPy, Pandas, Scikit Learn), R (dplyr, ggplot2, caret), Scala, Java, C#, Scala, SQL, C, C++

**Databases:** Ambari, Hadoop, MapReduce, HBase, MongoDB, Pig, Hive, Cassandra, MySQL, PostgreSQL.

**Tools/Platforms**: Jupyter Notebook, Microsoft Azure, Spark, GraphX, MATLAB, MS Excel, MS PowerPoint, Gephi, Tableau.

**Certifications:** Competent Communicator and Leader Certifications - Toastmasters International.

# ACADEMIC PROJECTS

**Loan Default Prediction Using Logistic Regression, Illinois Institute of Technology** Aug 2017 – Dec 2017

* Developed predictive model for loan eligibility criteria with 78 % accuracy 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, 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 graph operations like Page Rank, Aggregated Messages to identify key stations and interaction patterns.

**Public Safety Crime Analysis of Illinois Tech, Illinois Institute of Technology** Jan 2018 – Apr 2018

* Conducted an in-depth data exploration of public safety and weather data for Illinois Tech for three-year time period.
* Built classification models for predicting serious crime incidents using Decision Trees and Random forests with 87% accuracy
* Employed R for web scraping, data munging and performed deployed the model using RShiny to visualize crime hotspots.

**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 PRAW Python API.
* Employed Natural Language processing on Labelled News and built prediction models using Sci-kit Learn with 89% accuracy.

**WORK EXPERIENCE**

**Computer Science Teaching Assistant**, **Illinois Institute of Technology** Aug 2018 – Dec 2018

* Graduate Teaching Assistant for **Big Data Technologies** under Professor Adam McElhinney (VP of Data Science, Uptake)
* Responsible for preparing course materials, grading assignments and handling lectures

**Software Engineer / Lead, Tata Consultancy Services** Nov 2012 – July 2017

* Successfully delivered mission critical production enhancements projects for **American Express** banking softwareplatform
* Created dashboards for understanding the testing efficiency, project costs and process flows using **Tableau** and **MS Excel**.
* Responsible for the R & D of **hybrid automation framework** that resulted in the project cost savings of **300K** during a fiscal year
* **Trained** over 50 in-house software engineers and clients on automation frameworks, project management and communication

# AWARDS AND RECOGNITIONS

* **Second prize** in TCS – Amex Hackathon, Tata Consultancy Services
* “**Bravo award**” (For Outstanding Service), American Express Clients

# ADDITIONAL DETAILS

* **Past President of Toastmasters Club**, TCS Charter, Kochi.
* **Public Speaking Trainer** - 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.