**Manu Sreekumar**

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**SUMMARY**: Masters candidate in Data science. Interning with Uptake Technologies in industrial data analytics. 5+ years of software development experience in Banking domain. Passionate about developing data driven solutions to generate actionable insights.

# 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 (tidyverse, rcpp), Scala, Java, C#, SQL, C, C++

**Databases:** Ambari, Hadoop, MapReduce, HBase, MongoDB, Pig, Hive, Cassandra, MySQL, PostgreSQL, Neo4j

**Tools/Platforms**: Microsoft Azure, AWS, Apache Spark, GraphX, Gephi, Docker, OpenCV, TensorFlow

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

# ACADEMIC PROJECTS

**Lincoln Park Camera Trap Analytics, Illinois Institute of Technology** Jan 2019 – May 2019

* Improved the Image Analytics Tool for Urban Wildlife Research by adding features for tagging specific animal images
* Applied OpenCV and SciKit Image for image processing, TensorFlow for model training and Docker for implementation
* Rolled out Version 2.0 of Autofocus that identifies specific animals in images with an overall **accuracy of 83%**

**Telecommunications Data Analysis using Spark, Illinois Institute of Technology** Aug 2017 – Dec 2017

* Modelled Graphs 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 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.
* Applied Natural Language processing on Labelled News and built prediction models using Sci-kit Learn with **89% accuracy.**

**WORK EXPERIENCE**

**Data Science Intern, Uptake Technologies**  Jan 2019 – May 2019

* Gathered specific use cases across industry verticals and developed tool packages using R for empowering data assessment routines
* Worked with clients for setting KPIs and aligned data collection mechanisms towards improving production efficiency.
* Performed data preparation, analysis and built models to generate actionable insights and measure specific impact on KPIs.

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

* Successfully delivered mission critical production enhancements projects for **American Express** banking softwareplatform
* 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

* **Computer Science Teaching Assistant** at Illinois Institute of Technology for Big Data Technologies graduate course.
* **Past President of Toastmasters International**, TCS Kochi. Conducted public speaking training sessions for professionals
* **Acting and Playwriting** - Won numerous accolades for organizing street dramas and plays.