

# 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

<b>Masters of Science: Data Science</b>	Illinois Institute of Technology	Aug 2017 – May 2019
<b>Bachelor of Technology: Electrical and Electronics</b>	Federal Institute of Science and Technology	Aug 2008 – June 2012

## SKILL SET

<b>Languages:</b>	Python (NumPy, SciPy, Pandas, Scikit Learn), R (tidyverse, rcpp), Scala, Java, C#, SQL, C, C++
<b>Databases:</b>	Ambari, Hadoop, MapReduce, HBase, MongoDB, Pig, Hive, Cassandra, MySQL, PostgreSQL, Neo4j
<b>Tools/Platforms:</b>	Microsoft Azure, AWS, Apache Spark, GraphX, Gephi, Docker, OpenCV, TensorFlow
<b>Certifications:</b>	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 software platform
- 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.