

Manu Sreekumar

Sammanish, WA – 98075 | 603-205-5986 | msreekumar@hawk.iit.edu | <https://www.linkedin.com/in/manu-sreekumar>

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
- o Improved the Image Analytics Tool for Urban Wildlife Research and rolled out version 2.0 for tagging animal images
 - o Employed FastAI Pytorch with classification **accuracy of 87%** and time savings in manual tagging by **80%**.
- Telecommunications Data Analysis using Spark, Illinois Institute of Technology** Aug 2017 – Dec 2017
- o Modelled Graphs for analyzing interaction strength using Spark GraphX in Microsoft Azure platform for the city of Milan.
 - o 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
- o Conducted an in-depth data exploration of public safety and weather data for Illinois Tech for three-year time period.
 - o Built classification models for predicting serious crime incidents using Decision Trees and Random forests with **87% accuracy**
 - o 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
- o Conducted social network analysis of Reddit Posts to understand the key characteristics of fake news propagation.
 - o Extracted user karma points, activities, subreddits, comments, upvotes and relevant posts information using PRAW Python API.
 - o 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
- o Gathered specific use cases across industry verticals and developed tool packages using **R** for faster data assessment routines
 - o Merged multiple data sources, performed data analysis and delivered actionable insights on improving production runtime.
 - o Combined expert rules and machine learning for building predictive maintenance models for **industrial IOT**.
- Software Engineer / Lead, Tata Consultancy Services** Nov 2012 – July 2017
- o Successfully delivered mission critical production enhancements projects for **American Express** banking software platform
 - o Responsible for the R & D of **hybrid automation framework** that resulted in the project cost savings of **300K** during a fiscal year
 - o **Trained** over 50 in-house software engineers and clients on automation frameworks, project management and communication

AWARDS AND RECOGNITIONS

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

ADDITIONAL DETAILS

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