

Manu Sreekumar

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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 software with 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**.