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
- o   Developed predictive model for loan eligibility criteria with 78 % accuracy using Logistic Regression and Decision Trees.
- o   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
- o   Build Graph 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 performed 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   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

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

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   Created dashboards for understanding the testing efficiency, project costs and process flows using **Tableau** and **MS Excel**.
- 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   **Past President of Toastmasters Club**, TCS Charter, Kochi.
- o   **Public Speaking Trainer** - Organized training sessions and cultural events to promote the art of public speaking.
- o   **Acting and Playwriting** - Won numerous accolades for organizing street dramas and plays.