Sudharsan Asaithambi

MS Data Science – Centre for Data Science, NYU

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Education	**New York University, New York**	**Exp GPA: 4/4**
	M.S in Data Science, Centre for Data Science	**09/2020 – Present**

- Key Courses: Robo Advisors & Systematic Trading, Machine Learning, Big Data, Probability & Statistics, Computational Linear Algebra & Optimization

	Birla Institute of Technology & Science, Pilani	**GPA: 7.54/10**
	B.E(Hons) Mechanical Engineering	**07/2013 - 05/2017**

- Key Courses: Financial Management, Stocks & Portfolio Management, Supply Chain Management, Marketing Research, Production Planning & Control, Engineering Optimization

Skills

Languages: Python, SQL (MySQL, Hive), Java, JavaScript, Unix
Frameworks: Pytorch, PySpark, Ab Initio, ESaaS, Terraform, Kafka, Hadoop, Power BI
Platforms: AWS, Hadoop, Docker
Libraries: Pandas, NumPy, Matplotlib, Scikit-Learn, Pytest, Scrapy

Experience	**Barclays**	**07/2017 - 07/2020**
	Senior Developer - Data Integration Center of Excellence	**Pune, India**

- Created and owned a web application end-to-end to ingest and test files on Data Warehouse and reduced configuration time from 4 days to 2hrs per file.
- Developed Spark Framework to compact parquet files which reduced hive query time by 57% and space by 49%.
- Implemented performance dashboard for Hadoop Data Warehouse using ELK and Kafka.

	Edupristine	**01/2017 – 07/2017**
	Data Science Intern	**Mumbai, India**

- Developed a Lead Scoring Model to prioritize and qualify the incoming sales leads for courses.
- Trained the model with past user data using Random Forest to the predict the user's conversion class. Achieved multi-class accuracy of 60% with 5 classes.
- Boosted the sales force productivity by 42% with the lead prioritization.

	180 Degrees Consulting BITS Goa Chapter – Non-Profit Organization	**01/2016 – 12/2016**
	Consultant	**Goa, India**

- Provided analytical service to Non-Profit Organizations to increase their outreach.
- Boosted NGO Bhumi's volunteer engagement by 42% by Social Media Analytics.

Selected Projects

Stock Market QQQ Index 10-day window Price Prediction (GitHub)
- Predict QQQ Index price using Support Vector Machines with prices of Top-5 stocks, bonds and gold price as features.

Handwritten Signature Recognition using Convolutional Auto Encoders
- Detect fraudulent signatures by obtaining similarity scores with original using Convolutional Neural Networks with Auto Encoders architecture after centering, skeletonizing the signatures.

Customer Geo-Clustering using Google Maps API and Power BI
- Performed clustering using customer's address by fetching latitude and longitudes from Google Maps APIs using Python.

Certifications	- Deep Learning Nano Degree - **Udacity**	**05/2020**
	- Neural Networks and Deep Learning - **Coursera**	**03/2018**

Honors and Activities

- Awarded by the Barclays CEO as the **Star Graduate** of Class 2017 out of a batch of 130.
- One of the four nominees of **Early Career Awards** for doing outstanding work out of 1000+ colleagues who started their career with Barclays.