

Cara Evangeline Chandra Mohan

Data Scientist



Station court
London N15 4NU, UK



+44-7466832767



caraevangeline10@gmail.com



<https://www.linkedin.com/in/cara-evangeline-0a7087116/>



<https://github.com/caraevangeline>

PROFILE

ML engineer with industrial work experience of applying Data science to a Cybersecurity startup company and a graduate in Big Data Science. Strongly passionate and committed to enhance analytics with data, AI, and technology, with determination to acquire more skills in AI/ML to provide deeper and better insights. A professional coder and have been programming since high school and had taken part in coding competitions in HackerRank and other platforms and an excellent problem-solver with highly efficient programming skills. Given testimonial to young women entering tech which is yet to be published in digital platform and have been working to the fullest to aspire for greater things.

EDUCATION

MSc Big Data Science with Industrial Experience, Queen Mary University of London (Expected: First) Sep 2019 – Sep 2021

- Acquired strong skills to build supervised and unsupervised ML models like linear regression, SVM, Bayesian network, GAN, CNN for image classification, LSTM and other deep neural networks using python libraries like Tensorflow, Pytorch, Scikit-learn and Keras. Performed analysis on large datasets (ethereum, Twitter live streaming) in Spark and Hadoop platforms
- Gained insights and wider knowledge from modules including Data mining, Statistics, Machine learning, Big data processing, Data analytics, Deep learning, and Machine learning for visual data analysis.

B. Tech Computer Science, National Institute of Technology, India (First)

Sep 2015 – May 2019

- Data warehousing and data mining:* Analysed mining algorithms for customer retention in the banking sector, coded association, classification, clustering algorithms on various structured data sets in R programming
- Database management systems:* Worked on a mini task developed by a competitive institute in India (IIT) that involved SQL and relational databases. Have extensively used SQL for accessing and processing data
- Machine learning and soft computing:* Learnt probabilistic models and gaussian mixtures

WORK EXPERIENCE

MACHINE LEARNING INTERN

Sep 2020 - Present

Conatix Corp, United Kingdom

Working on anomaly detection to detect insider fraud in banks/companies by developing various machine learning and computer vision algorithms with image, network, behavioural and system-level data

- Working along with University of Montreal, Canada as a visiting research student
- Developed and deployed high performance, highly available and scalable ML GAN model for time-series prediction to detect insider fraud using system-level and behavioural data in Google cloud platform and AWS
- Have been a part of end-to-end product development with the knowledge of writing quality code in Python3 using standard libraries and also worked on pre-processing of the data which included performing ETL
- Worked on the web interface for Visualisation of the entire IT network using three.js and APIs to deliver better insights
- Gained exposure to wide technology, platforms and languages and have been able to adapt and follow agile methodology in software development life cycle
- Have extensively used SQL for business rules and for fetching, processing huge amount of structured data for ML analysis
- Presented product demos for external CISOs and investors
- Have decoded business requirements of the company into technical solutions and details

IT INTERN

June 2018 - July 2018

Qube Cinema Technologies, India

Worked on web development for the use of IT staff to coordinate the list of service requests made by the employees in the company.

- Used web programming languages PHP, HTML, CSS, JavaScript, Bootstrap to build the web interface software
- My work was bench-marked, and I presented the demo of the interface to the HR department which received high appreciation

DATA SCIENCE PROJECTS

Queen Mary University of London, UK

June 2020 - Sep 2020

Evaluation of Knowledge Transfer in GuessWhat! Game (Thesis - [Distinction]) *[paper yet to be sent to a conference]*

- Language used: Python
- OS: Linux with GPU to run complex programs
- Library: Pytorch
- Evaluated knowledge transfer between different tasks in GuessWhat! Game (a two-player guessing game as a testbed for research on the interplay of computer vision and dialogue systems). Involves computer vision, natural language processing algorithms and transfer learning
- Acquired the skills to work individually and gained the knowledge to code complex programs

Queen Mary University of London, UK

March 2020 - April 2020

RESTFUL web application using SPOTIFY API (<https://github.com/caraevangeline/coursework>)

- Language used: Python
- Server: AWS EC2 instance
- Libraries: flask, Cassandra
- Used SPOTIFY API to process various requests, stored the required data in cassandra database and built a docker image and implemented kubernetes for load balancing, finally served the application over HTTPS using adhoc certificates

National Institute of Technology, India

Oct 2018 – May 2019

Aspect based opinion mining using deep CNN (https://github.com/caraevangeline/Aspect_Extraction_Project)

- Language used: Python
- OS: Linux [Ubuntu 18.04]
- Libraries: nltk, tensorflow, numpy, os
- Deep learning algorithm, CNN was used to summarize the opinion aspects of a restaurant (i. e. ambience, food, service are the three aspects of a restaurant and we summarized the feedback of every aspect based on customer reviews) based on sentiment analysis
- Gained the experience of actively monitoring the team as a lead and distributing the work according to individual interests and ability

TECHNICAL SKILLS

- AWS EC2 and REST API - Worked and developed a web app using SPOTIFY API
- Hadoop, Spark - Analysed insights of large datasets like ethereum
- Python - Coded NLP algorithms and deep neural networks for image processing
- R program - Data exploration, visualisation, modelling and statistical analysis on various datasets
- SQL, PLSQL - Used to retrieve required data from datasets
- Unix commands, Bash scripting - Utilised the knowledge in using Linux OS extensively
- Agile and Evolutionary prototyping model practised for every project developed
- Weka, RapidMiner - Data pre-processing for noisy datasets
- PHP, HTML, CSS, Bootstrap, java script - Developed IT service portal, student portal
- C++ - Programmed attendance system using file handling
- JAVA - Threads and applets learnt as a part of Object oriented programming
- Data Structures - Linked list, queues, stack, graphs coded
- Microsoft office and Latex - Documented projects, paper works and presentations

HOBBIES AND ACHIEVEMENTS

- Strong Commitment: Recited 1200 bible verses in church competition.
- Piano - Initial grade from Trinity College of London
- Passionate in writing spiritual quotes (<https://www.yourquote.in/caraevangeline10>)
- Received partial fees waiver for Masters education for excellence in academic performance
- Completed undergraduate in India's one of the most prestigious institute, National Institute of technology (NIT), where 1M students compete to enter to NITs and I was one among 25k to get through it successfully
- Wide knowledge in tech: Published paper in IEEE conference which is related to wireless sensor networks [Efficient Task Allocation Strategies For WSNs]

References available on request