

# RAJARSHI CHATTOPADHYAY

I am a Software Engineer having 4 years experience:  
internship on web application development, permanent job on application development and support<sup>1</sup>, personal and academic projects on applied machine learning and Big Data management and analysis<sup>2</sup>, and self-learned system design fundamentals.

As a Big Data enthusiast, I have undertaken online training earning digital badges<sup>3</sup> on Big Data technologies to stay relevant. I also take interest in designing highly scalable intelligent systems.

*Currently searching for a software engineer position that allows me to develop and improve software and build intelligent systems to positively impact the global community.*

## EDUCATION

2020  
|  
2018

- **M.S. in Computer Science, Intelligent Systems**

University of Texas at Dallas

📍 Dallas, TX, USA

- Data Structures, Big Data, Machine Learning
- Specialization: Intelligent Systems

2014  
|  
2012

- **B.Tech. in Electronics**

West Bengal University of Technology

📍 Kolkata, WB, India

- Object Oriented Programming, Embedded Systems, Microprocessors, Digital Electronics
- Thesis: Design and Development of a RISC Processor based on Harvard Architecture

## PROFESSIONAL EXPERIENCE

2019

- **Software Engineer Intern, IT**

Tesla

📍 Fremont, CA, USA

- Infrastructure automation: Automated infrastructure access requests and brought down the turnaround time by 90%.

2019

- **Software Development Engineer Intern**

Copart

📍 Dallas, TX, USA

- Developed and maintained web application modules and REST microservices for billing and payments operations.

2019  
|  
2018

- **Administrative Assistant, Student-worker**

Office of Graduate Education, UT Dallas

📍 Dallas, TX, USA

- Developed template to aid faster review of dissertation documents.
- Performed data maintenance, workshop arrangements and social media engagement.



View this CV online at  
[likarajo.github.io/cv](https://likarajo.github.io/cv)

View my resume online at  
[likarajo.github.io/cv/resume](https://likarajo.github.io/cv/resume)

## CONTACT

- ✉ [likarajo@gmail.com](mailto:likarajo@gmail.com)
- ㏌ [linkedin.com/in/likarajo](https://linkedin.com/in/likarajo)
- /github [github.com/likarajo](https://github.com/likarajo)
- ⌚ [likarajo.github.io](https://likarajo.github.io)
- 📞 (469) 380-2696

## TECHNICAL SKILLS

- Lang:* Java, Python, Scala  
*Web:* Spring, Spring Boot  
*Big Data:* Hadoop, Spark  
*DevOps:* Git, Jenkins, Docker  
*Database:* SQL, NoSQL  
*Front End:* HTML/CSS/JavaScript  
*Cloud:* AWS S3 EC2 EMR, Elastic

2018   2014	<ul style="list-style-type: none"> <li>● <b>Software Systems Engineer</b> IBM <span style="float: right;">📍 Kolkata, WB, India</span> <ul style="list-style-type: none"> <li>• Developed and maintained client application back-end. Automated DB updates and app-queue monitoring. Received IBM Best Emerging Techie Award in 2016.</li> </ul> </li> </ul>
2013   2012	<ul style="list-style-type: none"> <li>● <b>Embedded Systems Engineer Apprentice</b> Hi-Q Solutions <span style="float: right;">📍 Kolkata, WB, India</span> <ul style="list-style-type: none"> <li>• Developed embedded solutions using Finite State Machines, Assembly Language, and VHDL.</li> </ul> </li> </ul>
2013	<ul style="list-style-type: none"> <li>● <b>Associate Engineer Apprentice</b> Bharat Sanchar Nigam Ltd. <span style="float: right;">📍 Kolkata, WB, India</span> <ul style="list-style-type: none"> <li>• Analyzed requirement and designed a college campus network for an Institution.</li> <li>• Rank first with 96.95% score in Vocational Training on Communication Systems.</li> </ul> </li> </ul>
2013   2012	<ul style="list-style-type: none"> <li>● <b>Associate Engineer Apprentice</b> Siemens VAI Metal Technologies <span style="float: right;">📍 Kolkata, WB, India</span> <ul style="list-style-type: none"> <li>• Prepared hook-up diagrams for installation of automation instruments at client factory location.</li> <li>• Prepared container diagrams for holding instruments using CAD</li> </ul> </li> </ul>

## ↗ PROJECTS

2019	<ul style="list-style-type: none"> <li>● <b>Twitter Sentiments</b> Academic <span style="float: right;">📍 University of Texas at Dallas</span> <ul style="list-style-type: none"> <li>• A Spark Streaming application for live tweets sentiment analysis.</li> </ul> <p>Tech/Skills: <i>Scala, SBT, Spark, Twitter API, Zookeeper, Kafka, Elastic-Search, Logstash, Kibana</i></p> <p>Repo: <a href="https://github.com/likarajo/twitter_sentiments">github.com/likarajo/twitter_sentiments</a></p> <p>Link: <a href="https://likarajo.github.io/twitter_sentiments">likarajo.github.io/twitter_sentiments</a></p> </li> </ul>
2019	<ul style="list-style-type: none"> <li>● <b>House Price Prediction</b> Academic <span style="float: right;">📍 University of Texas at Dallas</span> <ul style="list-style-type: none"> <li>• Analyzing house price data from Kaggle and building a model using the data which can be used to predict the final price of a house.</li> </ul> <p>Tech/Skills: <i>Python, Feature-engineering, AWS S3 EC2 EMR, Spark, Scala, Regression</i></p> <p>Repo: <a href="https://github.com/likarajo/house_price">github.com/likarajo/house_price</a></p> <p>Link: <a href="https://likarajo.github.io/house_price">likarajo.github.io/house_price</a></p> </li> </ul>

I have developed multiple side projects on various technologies based on the knowledge gained through academic course work and personal effort

Have a look at my projects here:

 [github.com/likarajo](https://github.com/likarajo)  
 [likarajo.github.io/Projects](https://likarajo.github.io/Projects)

- 2019
- **Face recognition**  
Personal
    - Image recording, preparing image data, and training with pre-built Haar-cascade classifier to recognize face.Tech/Skills: *numpy, cv2, python, Haar-cascade classifier*  
Repo: [github.com/likarajo/face\\_recognition](https://github.com/likarajo/face_recognition)  
Link: [likarajo.github.io/face\\_recognition](https://likarajo.github.io/face_recognition)
- 2019
- **Chatbot**  
Personal
    - A chat bot designed to simulate conversation with users base on Artificial Intelligence.Tech/Skills: *AI, AIML, Python, Flask*  
Repo: [github.com/likarajo/chatbot](https://github.com/likarajo/chatbot)  
Link: *N/A*
- 2020
- **Sentiment of Movie Review**  
Personal
    - Deep Learning model built with NN, CNN, RNN using pretrained GloVe word embeddings from Stanford Core NLPTech/Skills: *Keras, TensorFlow, Scikit-learn, NLP, Neural Networks, Python3*  
Repo: [github.com/likarajo/movie\\_sentiment](https://github.com/likarajo/movie_sentiment)  
Link: *N/A*
- 2019
- **Customer Churn**  
Personal
    - Classification model to predict whether or not the customer is likely to leave the bank based on various customer characteristics using PyTorchTech/Skills: *PyTorch, Classification, Python3*  
Repo: [github.com/likarajo/customer\\_churn](https://github.com/likarajo/customer_churn)  
Link: *N/A*

2019

- **Passengers Count**

Personal

- Time Series Prediction to predict the count of traveling passengers based on historical data using Long Short Term Memory (LSTM) Neural Network

Tech/Skills: *LSTM, Neural-Network, Time-Series-Prediction, Python3*

Repo: [github.com/likarajo/passengers\\_count](https://github.com/likarajo/passengers_count)

Link: *N/A*

2019

- **Car Evaluation**

Personal

- Deep learning classification model to evaluate a car using Tensorflow2.0

Tech/Skills: *TensorFlow2.0, Classification, Deep-Learning, Neural-Network, Python3*

Repo: [github.com/likarajo/car\\_evaluation](https://github.com/likarajo/car_evaluation)

Link: *N/A*

2019

- **Petrol Consumption**

Personal

- Deep learning regression model to predict petrol consumption using Tensorflow2.0

Tech/Skills: *TensorFlow2.0, Regression, Deep-Learning, Neural-Network, Python3*

Repo: [github.com/likarajo/petrol\\_consumption](https://github.com/likarajo/petrol_consumption)

Link: *N/A*

2019

- **Language Translation**

Personal

- Deep Learning language translation model built with Keras using LSTM Neural Machine Translation with seq2seq encoder-decoder architecture

Tech/Skills: *Keras, Deep-Learning, LSTM, Neural-Machine-Translation, Python3*

Repo: [github.com/likarajo/language\\_translation](https://github.com/likarajo/language_translation)

Link: *N/A*

2019

- **Text Generation**

Personal

- Deep Learning model to predict the next word based on a sequence of input words built with Keras using LSTM Neural Network

Tech/Skills: *Keras, Deep-Learning, LSTM, Neural-Network, Python3*

Repo: [github.com/likarajo/comment\\_toxicity](https://github.com/likarajo/comment_toxicity)

Link: *N/A*

2019

- **Comment Toxicity**

Personal

- Multi-label classification model to predict the probability of each type of toxicity for comments using deep learning with Keras.

Tech/Skills: *Keras, Deep-Learning, Neural-Network, Classification, Python3*

Repo: [github.com/likarajo/text\\_generation](https://github.com/likarajo/text_generation)

Link: *N/A*

2019

- **Business reviews**

Personal

- Multi-Input classification model to classify user reviews regarding different businesses using deep-learning with Keras

Tech/Skills: *Keras, Deep-Learning, Neural-Network, Classification, Python3*

Repo: [github.com/likarajo/business\\_reviews](https://github.com/likarajo/business_reviews)

Link: *N/A*

2020

- **Customer Targeting**

Personal

- Binary Classification model to predict whether a customer will be interested on a particular advertisement based on customer Ad-Clicks data.

Tech/Skills: *Scikit-learn, Classification, Logistic-Regression, Decision-Tree-Classifier, Python3*

Repo: [github.com/likarajo/customer\\_targeting](https://github.com/likarajo/customer_targeting)

Link: *N/A*

- 2020 • **Black Friday Shopping**  
Personal  
• Regression model to predict the amount of money that a person is likely to spend on Black Friday based on features like gender, occupation, age etc.  
Tech/Skills: *Scikit-learn, Regression, LinearRegression, Python3*  
Repo: [github.com/likarajo/blackfriday\\_shopping](https://github.com/likarajo/blackfriday_shopping)  
Link: *N/A*
- 2020 • **Text Summarization**  
Personal  
• Automatic text summarization with simple NLP-based technique to summarize textual data from Wikipedia articles.  
Tech/Skills: *NLTK, Text-Summarization, NLP, Python3*  
Repo: [github.com/likarajo/text\\_summarization](https://github.com/likarajo/text_summarization)  
Link: *N/A*
- 2020 • **Wine Quality**  
Personal  
• Classification model to predict the quality of wine based on different attributes.  
Tech/Skills: *Scikit-learn, Clustering, Hierarchical-Clustering, Agglomerative-Clustering, Python3*  
Repo: [github.com/likarajo/wine\\_quality](https://github.com/likarajo/wine_quality)  
Link: *N/A*
- 2020 • **Shopping Trends**  
Personal  
• Clustering to segment customers into different groups based on their shopping trends using Hierarchical Agglomerative Clustering.  
Tech/Skills: *Scikit-learn, Classification, Bayes-Theorem, Naive-Bayes-Classifier, NLTK, Python3*  
Repo: [github.com/likarajo/shopping\\_trends](https://github.com/likarajo/shopping_trends)  
Link: *N/A*

2020	<ul style="list-style-type: none"> <li>● <b>Spam SMS</b> Personal           <ul style="list-style-type: none"> <li>• Classification to detect Spam SMS using Naive Bayes' Classifier.</li> </ul> <p>Tech/Skills: <i>Scikit-learn, Classification, Random-Forest-Classifier, Cross-Validation, Grid-Search, Python3</i></p> <p>Repo: <a href="https://github.com/likarajo/spam_sms">github.com/likarajo/spam_sms</a></p> <p>Link: <i>N/A</i></p> </li> </ul>
2020	<ul style="list-style-type: none"> <li>● <b>Glass Type</b> Personal           <ul style="list-style-type: none"> <li>• Classification to find the type of glass based on their oxide content after Dimensionality Reduction</li> </ul> <p>Tech/Skills: <i>Scikit-learn, Classification, Random-Forest-Classifier, Dimensionality-Reduction, PCA, LDA, Python3</i></p> <p>Repo: <a href="https://github.com/likarajo/glass_type">github.com/likarajo/glass_type</a></p> <p>Link: <i>N/A</i></p> </li> </ul>
2020	<ul style="list-style-type: none"> <li>● <b>Currency Note Authenticity</b> Personal           <ul style="list-style-type: none"> <li>• Classification to predict if a bank currency note is authentic based on its image features using multiple classifiers.</li> </ul> <p>Tech/Skills: <i>Scikit-learn, Classification, Decision-Tree-Classifier, Random-Forest-Classifier, K-Nearest-Neighbors, Support-Vector-Classifier, Python3</i></p> <p>Repo: <a href="https://github.com/likarajo/currencynote_authenticity">github.com/likarajo/currencynote_authenticity</a></p> <p>Link: <i>N/A</i></p> </li> </ul>
2020	<ul style="list-style-type: none"> <li>● <b>Weather Prediction</b> Personal           <ul style="list-style-type: none"> <li>• Regression to predict temperature based on different weather aspects</li> </ul> <p>Tech/Skills: <i>Scikit-learn, Regression, Linear-Regression, Python3</i></p> <p>Repo: <a href="https://github.com/likarajo/weather_prediction">github.com/likarajo/weather_prediction</a></p> <p>Link: <i>N/A</i></p> </li> </ul>
2019	<ul style="list-style-type: none"> <li>● <b>CV</b> Personal           <ul style="list-style-type: none"> <li>• My Curriculum Vitae</li> </ul> <p>Tech/Skills: <i>R, Markdown, Pagedown</i></p> <p>Repo: <a href="https://github.com/likarajo/cv">github.com/likarajo/cv</a></p> <p>Link: <a href="https://likarajo.github.io/cv">likarajo.github.io/cv</a></p> </li> </ul>

- 2017
- **Kinship**  
Personal
    - A tool that finds out what are the related words (kins) to a particular word that twitter users have tweeted.Tech/Skills: *Twitter API, Tkinter, Python3*  
Repo: [github.com/likarajo/kinship](https://github.com/likarajo/kinship)  
Link: [likarajo.github.io/kinship](https://likarajo.github.io/kinship)
- 2019
- **Personal Website V3**  
Personal
    - Version 3 of my portfolio website.Tech/Skills: *JS, Gatsby, Netlify, GitHub-Pages*  
Repo: [github.com/likarajo/website](https://github.com/likarajo/website)  
Link: [likarajo.github.io](https://likarajo.github.io)
- 2019
- **Movie Search**  
Academic  University of Texas at Dallas
    - Movies Search based on self-implemented TF-IDF values and Cosine-Similarity computed using movie plot summaries data taken from CMU Movie Summary Corpus.Tech/Skills: *TF-IDF, Cosine-Similarity, Spark, Scala*  
Repo: [github.com/likarajo/MovieSearch](https://github.com/likarajo/MovieSearch)  
Link: *N/A*
- 2019
- **Airport Rank**  
Academic  University of Texas at Dallas
    - Rank top airports based on self-implemented Page Rank values computed using their connections data from Bureau of Transportation Statistics.Tech/Skills: *Page rank, Spark, Scala*  
Repo: [github.com/likarajo/AirportRank](https://github.com/likarajo/AirportRank)  
Link: *N/A*
- 2019
- **News Topic Modelling**  
Academic  University of Texas at Dallas
    - Find out topic of news from CNN news dataTech/Skills: *Latent-Dirichlet-Allocation, Spark, Scala*  
Repo: [github.com/likarajo/topics](https://github.com/likarajo/topics)  
Link: *N/A*

2019	<ul style="list-style-type: none"> <li>● <b>Text to Number</b></li> </ul>	<p>Personal</p> <p>📍 Project</p> <ul style="list-style-type: none"> <li>• Implementation of Text Vectorization methods - Bag-of-words, TF-IDF, Ngrams</li> </ul> <p>Tech/Skills: <i>Scikit-learn, NLTK, Bag-of-words, TF-IDF, Ngrams, Python3</i></p> <p>Repo: <a href="https://github.com/likarajo/text2number">github.com/likarajo/text2number</a></p> <p>Link: <i>N/A</i></p>
2019	<ul style="list-style-type: none"> <li>● <b>Portfolio</b></li> </ul>	<p>Personal</p> <ul style="list-style-type: none"> <li>• My portfolio website</li> </ul> <p>Tech/Skills: <i>R, Blogdown</i></p> <p>Repo: <a href="https://github.com/likarajo/Projects">github.com/likarajo/Projects</a></p> <p>Link: <a href="https://likarajo.github.io/Projects">likarajo.github.io/Projects</a></p>
2019	<ul style="list-style-type: none"> <li>● <b>Social Network Analysis</b></li> </ul>	<p>Academic</p> <p>📍 University of Texas at Dallas</p> <ul style="list-style-type: none"> <li>• Analysing a social network of users liking each other's posts created in a graph structure.</li> </ul> <p>Tech/Skills: <i>GraphX, Spark, Scala</i></p> <p>Repo: <a href="https://github.com/likarajo/social_network">github.com/likarajo/social_network</a></p> <p>Link: <i>N/A</i></p>
2019	<ul style="list-style-type: none"> <li>● <b>Crimes Analysis</b></li> </ul>	<p>Academic</p> <p>📍 University of Texas at Dallas</p> <ul style="list-style-type: none"> <li>• Finding the crimes cluster in a region using Kmeans clustering as silhouette.</li> </ul> <p>Tech/Skills: <i>Kmeans-clustering, Spark, Scala</i></p> <p>Repo: <a href="https://github.com/likarajo/crimes">github.com/likarajo/crimes</a></p> <p>Link: <i>N/A</i></p>
2019	<ul style="list-style-type: none"> <li>● <b>Car Analysis</b></li> </ul>	<p>Academic</p> <p>📍 University of Texas at Dallas</p> <ul style="list-style-type: none"> <li>• Classify cars as automatic or manual.</li> <li>• Predict mileage of cars.</li> </ul> <p>Tech/Skills: <i>Support-Vector-Classifier, Decision-Tree, Logistic-regression, Linear-Regression, Spark, Scala</i></p> <p>Repo: <a href="https://github.com/likarajo/car_analysis">github.com/likarajo/car_analysis</a></p> <p>Link: <i>N/A</i></p>

- 2019 • **Sentiment on US Airline**  
Academic  University of Texas at Dallas
- Analyzing sentiment on US Airlines with Logistic Regression, Random Forest classifier, Naive-Bayes classifier using tweets data on US Airline.
- Tech/Skills: *Classification, Spark, Scala*  
Repo: [github.com/likarajo/usairline\\_sentiment](https://github.com/likarajo/usairline_sentiment)  
Link: *N/A*
- 2019 • **Sentiment of a sentence**  
Academic  University of Texas at Dallas
- Used dataset of labelled sentences from Yelp, Amazon, IMDB to learn a model and use the same to analyze the sentiment of new sentences.
- Tech/Skills: *TF-IDF, Classification, Scala*  
Repo: [github.com/likarajo/sentence\\_sentiment](https://github.com/likarajo/sentence_sentiment)  
Link: *N/A*
- 2019 • **Earthquakes**  
Personal
- Fetch data from USGS and plot areas across the world that had a 4.5+ earthquake in the last 24 hours.
- Tech/Skills: *Basemap, Conda, Python*  
Repo: [github.com/likarajo/earthquakes](https://github.com/likarajo/earthquakes)  
Link: *N/A*
- 2019 • **Temperature Anomaly**  
Personal
- Fetch data from NASA and plot regions on map that are fire hazards with high temperature anomaly.
- Tech/Skills: *Basemap, Conda, Python*  
Repo: [github.com/likarajo/hightemp](https://github.com/likarajo/hightemp)  
Link: *N/A*

2019

- **Recommender System**

Academic

📍 University of Texas at Dallas

- A recommender systems built using Collaborative filtering on ratings data.
- Used Alternating least squares (ALS) algorithm to learn the latent factors.

Tech/Skills: *Collaborative-Filtering, Alternating-Least-Squares-Algorithm, Latent-factors, Spark, Scala*

Repo: [github.com/likarajo/recommender](https://github.com/likarajo/recommender)

Link: *N/A*

2019

- **Dimensionality Reduction**

Academic

📍 University of Texas at Dallas

- Built a Support Vector Machine (SVM) Classifier model with Stochastic Gradient Decent (SGD) for Principal Component Analysis and Spectral Clustering.

Tech/Skills: *SVM-Classifier, Principal-Component-Analysis, Spectral-Clustering, Python3*

Repo: [github.com/likarajo/dimensionality\\_reduction](https://github.com/likarajo/dimensionality_reduction)

Link: *N/A*

2019

- **Ensemble Methods**

Academic

📍 University of Texas at Dallas

- Self-implementation of Bagging and Boosting on Decision Tree ID3 algorithm.
- Comparing it with Scikit Learn implementation using Mushroom Data Set.

Tech/Skills: *Scikit-Learn, Decision-Tree, ID3, Bagging, Boosting, Python3*

Repo: [github.com/likarajo/decision\\_tree\\_ensemble](https://github.com/likarajo/decision_tree_ensemble)

Link: *N/A*

2019

- **Decision Tree ID3**

Academic

📍 University of Texas at Dallas

- Self-implementation of Decision Tree ID3 algorithm.
- Comparing it with Scikit Learn implementation using MONK's Problems and Tic-Tac-Toe Endgame Data Set.

Tech/Skills: *Scikit-Learn, Decision-Tree, ID3, Python3*

Repo: [github.com/likarajo/decision\\_tree](https://github.com/likarajo/decision_tree)

Link: *N/A*

- 2019
- **Breast Cancer Diagnosis**  
Academic  University of Texas at Dallas
    - Model built for diagnosing and predicting Breast Cancer with Support Vector Machine using Wisconsin Breast Cancer diagnostic data set.Tech/Skills: *Scikit-Learn, Support-Vector-Classifier, Python3*  
Repo: [github.com/likarajo/breastcancer\\_diagnosis](https://github.com/likarajo/breastcancer_diagnosis)  
Link: *N/A*
- 2019
- **Titanic Survival**  
Personal
    - Titanic survival prediction with Decision Tree classifier using dataset from Kaggle Competition.Tech/Skills: *Decision-Tree-Classifier, Spark, Scala*  
Repo: [github.com/likarajo/titanic\\_survival](https://github.com/likarajo/titanic_survival)  
Link: *N/A*
- 2019
- **Personal Website V2**  
Personal
    - Version 2 of my portfolio website.Tech/Skills: *HTML, CSS, Bootstrap, JS, jQuery, GitHub-Pages*  
Repo: [github.com/likarajo/website\\_v2](https://github.com/likarajo/website_v2)  
Link: [likarajo.github.io/website\\_v2](https://likarajo.github.io/website_v2)
- 2018
- **Personal Website V1**  
Personal
    - My first portfolio website.Tech/Skills: *HTML, CSS, Bootstrap, JS, jQuery, GitHub-Pages*  
Repo: [github.com/likarajo/website\\_v1](https://github.com/likarajo/website_v1)  
Link: [likarajo.github.io/website\\_v1](https://likarajo.github.io/website_v1)
- 2019
- **Tetris Game**  
Academic  University of Texas at Dallas
    - A tetris UI game built as part of Computer Graphics curriculum.Tech/Skills: *Java, AWT, Swing*  
Repo: [github.com/likarajo/tetris](https://github.com/likarajo/tetris)  
Link: *N/A*

- 2019
- **Simulated OS with Demand Paging**  
Academic  University of Texas at Dallas
    - Simulated a computer system and implement a simple Operating System with simulated virtual memory demand paging scheme.Tech/Skills: *C++, Unix*  
Repo: [github.com/liikarajo/simOS\\_demandPaging](https://github.com/liikarajo/simOS_demandPaging)  
Link: *N/A*
- 2019
- **Simulated OS**  
Academic  University of Texas at Dallas
    - Simulated a computer system and implement a simple Operating System that manages the resources of the computer system.Tech/Skills: *C++, Unix*  
Repo: [github.com/liikarajo/simOS](https://github.com/liikarajo/simOS)  
Link: *N/A*
- 2018
- **CICD**  
Personal
    - Continuous Integration and continuous deployment using Jenkins.Tech/Skills: *Jenkins, DevOps*  
Repo: [github.com/liikarajo/devops-helloworld](https://github.com/liikarajo/devops-helloworld)  
Link: [liikarajo.github.io/devops-helloworld](https://liikarajo.github.io/devops-helloworld)
- 2018
- **911Calls**  
Personal
    - Data Science and visualization on 911 calls data.Tech/Skills: *Python3*  
Repo: [github.com/liikarajo/ds911calls](https://github.com/liikarajo/ds911calls)  
Link: *N/A*
- 2015
- **MQ Reporting Tools**  
Professional  IBM
    - Developed a Java UI for daily queue status report generation for the core application on a single click eliminating manual effort.Tech/Skills: *Java, SWT, Unix, Bash*  
Repo: [github.com/liikarajo/mqreporting](https://github.com/liikarajo/mqreporting)  
Link: *N/A*

2015	<ul style="list-style-type: none"><li>● <b>MQ Statistics Tools</b> Professional<ul style="list-style-type: none"><li>Automated daily queue status monitoring and reporting for the core application eliminating manual effort.</li></ul>Tech/Skills: <i>Unix, Bash</i> Repo: <a href="https://github.com/likarajo/mqstats">github.com/likarajo/mqstats</a> Link: <i>N/A</i></li></ul>	 IBM
2017	<ul style="list-style-type: none"><li>● <b>Rock Paper Scissor game</b> Personal<ul style="list-style-type: none"><li>A One-player rock paper scissor game built using Python</li></ul>Tech/Skills: <i>Python3, Tkinter</i> Repo: <a href="https://github.com/likarajo/rock-paper-scissor">github.com/likarajo/rock-paper-scissor</a> Link: <a href="https://likarajo.github.io/rock-paper-scissor">likarajo.github.io/rock-paper-scissor</a></li></ul>	
2018	<ul style="list-style-type: none"><li>● <b>Dallas Care</b> Academic<ul style="list-style-type: none"><li>Relational database designed for a hospital</li></ul>Tech/Skills: <i>N/A</i> Repo: <a href="https://github.com/likarajo/DallasCare">github.com/likarajo/DallasCare</a> Link: <i>N/A</i></li></ul>	
2017	<ul style="list-style-type: none"><li>● <b>Clock</b> Personal<ul style="list-style-type: none"><li>An online clock that can be customized; can be reused in any web page.</li></ul>Tech/Skills: <i>HTML, CSS, JS</i> Repo: <a href="https://github.com/likarajo/clock">github.com/likarajo/clock</a> Link: <a href="https://likarajo.github.io/clock">likarajo.github.io/clock</a></li></ul>	
2016	<ul style="list-style-type: none"><li>● <b>Brick Breaker Game</b> Personal<ul style="list-style-type: none"><li>A One-player brick breaker game built using Javascript</li></ul>Tech/Skills: <i>HTML, CSS, JS</i> Repo: <a href="https://github.com/likarajo/brickbreaker">github.com/likarajo/brickbreaker</a> Link: <a href="https://likarajo.github.io/brickbreaker">likarajo.github.io/brickbreaker</a></li></ul>	



## WRITINGS

2018

- **Containerization**

Personal

- A beginners guide for Creating and Publishing Docker Image for a Python app.

*[likarajoblogs.wordpress.com/2018/10/02/creating-and-publishing-docker-image-for-a-python-app](https://likarajoblogs.wordpress.com/2018/10/02/creating-and-publishing-docker-image-for-a-python-app)*

2018

- **CICD**

Personal

- A guide to learn the use of Jenkins for Continuous Integration and Continuous Deployment of projects.

*[likarajoblogs.wordpress.com/2018/12/29/devops-continuous-integration-and-continuous-deployment](https://likarajoblogs.wordpress.com/2018/12/29/devops-continuous-integration-and-continuous-deployment)*

2018

- **Python UI Game**

Personal

- A guide to build and containerize a GUI application

*[linkedin.com/pulse/basics-python-tkinter-rajarshi-chattopadhyay](https://linkedin.com/pulse/basics-python-tkinter-rajarshi-chattopadhyay)*

2019

- **Summer 2019 Internship Experience**

Professional

Copart Inc

- An article based on my learning outcomes and experience during my Summer internship at Copart

*[linkedin.com/pulse/software-engineer-internship-experience-summer-2019-chattopadhyay](https://linkedin.com/pulse/software-engineer-internship-experience-summer-2019-chattopadhyay)*

2014

- **RISC Processor using Harvard Architecture**

Academic

West Bengal University of Technology

- Based on my Bachelor's Thesis: Overview of designing and developing a Reduced Instruction Set Computing microprocessor, using Harvard Architecture.

*[likarajoblogs.wordpress.com/2018/06/08/risc-using-harvard](https://likarajoblogs.wordpress.com/2018/06/08/risc-using-harvard)*

2019

- **Functional and Object Oriented Programming**

Personal

- An article based on my learning outcomes from attending and informational session on Functional Programming.

*[linkedin.com/pulse/functional-vs-object-oriented-programming-rajarshi-chattopadhyay](https://linkedin.com/pulse/functional-vs-object-oriented-programming-rajarshi-chattopadhyay)*

I blog about what I learn and believe to let others benefit from it and collaborate.

Have a look at my writings here:

[LinkedIn Articles](#)

[likarajoblogs.wordpress.com](https://likarajoblogs.wordpress.com)

- 2018
- **Big Data in Agriculture**  
Personal
    - My thoughts on use of big data in agriculture in the modern modern world.

[likarajoblogs.wordpress.com/2018/06/04/bigdatainagriculture](http://likarajoblogs.wordpress.com/2018/06/04/bigdatainagriculture)

## ★ DIGITAL CREDENTIALS

- 2019
- **Spark - Level 1**  
IBM
    - Online Training and Certification

Tech/Skills: *Big Data, Hadoop, Spark*  
Link:[youracclaim.com/badges/7f05e6d8-b805-4a35-88e6-c9602e349b3e](https://youracclaim.com/badges/7f05e6d8-b805-4a35-88e6-c9602e349b3e)
  - **Hadoop Data Access - Level 1**  
IBM
    - Online Training and Certification

Tech/Skills: *Big Data, Hadoop, Hbase, Hive, SQL*  
Link:[youracclaim.com/badges/8e71f4cd-bb49-40da-97b7-750c0e135d74](https://youracclaim.com/badges/8e71f4cd-bb49-40da-97b7-750c0e135d74)
  - **Hadoop Administration - Level 1**  
IBM
    - Online Training and Certification

Tech/Skills: *Big Data, Flume, Hadoop, Oozie, Sqoop, Zookeeper*  
Link:[youracclaim.com/badges/1f77a5e0-03a1-440d-ab03-23a14822bfc8](https://youracclaim.com/badges/1f77a5e0-03a1-440d-ab03-23a14822bfc8)
  - **Hadoop Programming - Level 1**  
IBM
    - Online Training and Certification

Tech/Skills: *Big Data, Hadoop, MapReduce, Pig*  
Link:[youracclaim.com/badges/539ed004-cc7d-4e7f-ac5f-b44f024d9bf4](https://youracclaim.com/badges/539ed004-cc7d-4e7f-ac5f-b44f024d9bf4)
  - **Hadoop Foundations - Level 2**  
IBM
    - Online Training and Certification

Tech/Skills: *Big Data, Hadoop*  
Link:[youracclaim.com/badges/fecf5b63-2c1b-43a2-9101-88986f00881d](https://youracclaim.com/badges/fecf5b63-2c1b-43a2-9101-88986f00881d)
- I like to keep myself up-to-date with the latest technologies, through online training and certifications.
- Have a look at my earned digital credentials here:
- ★ [youracclaim.com/users/likarajo](https://youracclaim.com/users/likarajo)

- |      |   |
|------|---|
| 2017 | <ul style="list-style-type: none"><li>● <b>Hadoop Foundations - Level 1</b><br/>IBM<ul style="list-style-type: none"><li>• Online Training and Certification</li></ul>Tech/Skills: <i>Big Data, Hadoop</i><br/>Link:<a href="https://youracclaim.com/badges/da3fba74-7fc3-4eca-8f37-45fbbaade1b1">youracclaim.com/badges/da3fba74-7fc3-4eca-8f37-45fbbaade1b1</a></li></ul>                             |
| 2019 | <ul style="list-style-type: none"><li>● <b>Big Data Foundations - Level 2</b><br/>IBM<ul style="list-style-type: none"><li>• Online Training and Certification</li></ul>Tech/Skills: <i>Big Data, Hadoop, Spark</i><br/>Link:<a href="https://youracclaim.com/badges/83e1235d-67e5-4ec6-bec0-cecd6832e5f2">youracclaim.com/badges/83e1235d-67e5-4ec6-bec0-cecd6832e5f2</a></li></ul>                    |
| 2017 | <ul style="list-style-type: none"><li>● <b>Big Data Foundations - Level 1</b><br/>IBM<ul style="list-style-type: none"><li>• Online Training and Certification</li></ul>Tech/Skills: <i>Big Data, Hadoop</i><br/>Link:<a href="https://youracclaim.com/badges/d16d7bef-403b-4f33-bd2f-46cb6ab86de6">youracclaim.com/badges/d16d7bef-403b-4f33-bd2f-46cb6ab86de6</a></li></ul>                           |
| 2019 | <ul style="list-style-type: none"><li>● <b>IBM Cloud Kubernetes Service</b><br/>IBM<ul style="list-style-type: none"><li>• Online Training and Certification</li></ul>Tech/Skills: <i>Cloud, Containers, Kubernetes, Orchestration</i><br/>Link:<a href="https://youracclaim.com/badges/5ced5713-fe22-438e-b5b4-55806161f654">youracclaim.com/badges/5ced5713-fe22-438e-b5b4-55806161f654</a></li></ul> |
| 2019 | <ul style="list-style-type: none"><li>● <b>Docker Essentials</b><br/>IBM<ul style="list-style-type: none"><li>• Online Training and Certification</li></ul>Tech/Skills: <i>Cloud, Containers, Docker</i><br/>Link:<a href="https://youracclaim.com/badges/5a636a63-f897-4d8a-bdc6-45a02548a2ea">youracclaim.com/badges/5a636a63-f897-4d8a-bdc6-45a02548a2ea</a></li></ul>                               |
| 2017 | <ul style="list-style-type: none"><li>● <b>OCAJP - SE8</b><br/>Oracle<ul style="list-style-type: none"><li>• Online Training and Certification</li></ul>Tech/Skills: <i>Java, Application Development, JDK, Lambda Expressions</i><br/>Link:<a href="https://youracclaim.com/badges/f8683ce3-65ef-4370-a014-b90e4e764ba4">youracclaim.com/badges/f8683ce3-65ef-4370-a014-b90e4e764ba4</a></li></ul>     |

2017

- **IBM Blockchain Essentials**

IBM

- Online Training and Certification

Tech/Skills: *Blockchain, Distributed Ledger Technology, Hyperledger, Ledger, Open Source*

Link:[youracclaim.com/badges/1f9cc7ba-6947-4b68-b19a-dd87ca7358f2](http://youracclaim.com/badges/1f9cc7ba-6947-4b68-b19a-dd87ca7358f2)

2016

- **Enterprise Design Thinking Practitioner**

IBM

- Online Training and Certification

Tech/Skills: *Design, Empathy, Experience Design, Ideation, User-Centered Design, User-Centric, User Experience, User Research, UX*

Link:[youracclaim.com/badges/988cb1ad-c09e-4f88-8161-60bd14da9522](http://youracclaim.com/badges/988cb1ad-c09e-4f88-8161-60bd14da9522)



## KNOWLEDGE TRANSFER

2017

- **On-the-job training**

IBM

📍 Kolkata, WB, India

- Provided on-the-job training on application system architecture and database overview.

Tech/Skills: *SQL, Java*

2013

- **Workshop Presentation: Computer Architecture**

Narula Institute of Technology

📍 Kolkata, WB, India

- Delivered presentation on computer architecture in National seminar by IITE.

Tech/Skills: *Assembly Language, Microprocessor Intel 8085, Microcontroller Intel 8051*

2013

- **Workshop Presentation: Wireless Telecom**

Narula Institute of Technology

📍 Kolkata, WB, India

- Delivered presentation on wireless telecommunication in Industrial Educational Program at college.

Tech/Skills: *IPV4, IPV6, Cellular Commination*

I am passionate about sharing my knowledge with others. I believe that to teach is to learn twice. I have delivered at workshops at my college and at work.