

# KARTIK VASUDEV SHENOY

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## EDUCATION

### University of Mumbai, India

Bachelor of Technology in Computer Engineering; Department Rank: 1

August 2014 – June 2018

GPA: 9.56 / 10

### Ramnarain Ruia College, Mumbai, India

Higher Secondary Certificate, Mumbai Board; Department Rank: 1

August 2012 – March 2014

Percentage: 93.69 %

## EXPERIENCE

### Barclays Global Service Centre, Pune, India

Graduate Analyst, Barclaycard UK

July 2018 – Dec 2020

- Designed a process automation system that is helpful in enabling quick response to tweets using sentiment analysis and ontologies. Also, designed a prototype for chatbot for generating quick responses to common queries.
- Created a classifier application using ML algorithm Latent Dirichlet Allocation to extract insights from iOS and Android application reviews and customer complaints.
- Delivered a web portal for helping employees with free bandwidth and appropriate skillsets to contribute to tasks requiring assistance using AngularJS, Spring, Hibernate and MySQL saving more than 900 man-hours.
- Bagged the Barclays award of Stewardship for automating the generation of delivery metrics of more than 30 teams and creating multiple such dashboards, saving around 150 man-hours annually.

### Virtual Labs, Indian Institute of Technology, Bombay

Web Development Intern, Team Leader

March 2017 – August 2017

- Developed a website for the online demonstration of machine learning concepts such as neural networks, learning rules and optical character recognition. This lab has won the Global Online Laboratory Consortium International Lab Award.
- Led a team of three interns for the development of the assigned projects in this lab (hosted on IIT-B's '[Virtual Labs](#)' site).

## PROJECTS

### VeriSign [\[Demo Link\]](#) [\[Github Link\]](#)

- Deployed an application to verify signatures by comparing with the original one and detect forgery.
- Achieved an accuracy of 96 % by training a Convolutional Siamese Network using the concept of One-Shot Learning.

### Sign Language Translator [\[Github link\]](#)

- Managed a team of four to develop an Android application for recognizing Indian Sign Language used by the hearing- and speech-impaired. This is connected to a remote Python server.
- Extracted centroid contour distance curve of hand poses followed by normalization with FFT for feature-set generation.
- Designed HMMs for Gesture Recognition from gesture videos with 97.23 % accuracy and k-NN for Hand Pose Recognition with 99.7 % accuracy. Results published in a paper indexed by IEEE Xplore.

### Mera Caar – Guide to Car Components [\[Link\]](#) [\[Github Link\]](#)

- Developed an interactive Angular web-app to navigate around a car's skeleton and get details about the selected components such as engine, radiator, suspension with sound effects and graphics.

### Departmental Library Website

- Developed and deployed a library website for our department in college having administrative features such as book copy addition, issuing, returning and student user features such as issued book renewal. Managed a team of 3 for the entire lifecycle of the project.

## PUBLICATIONS

- "Real-time Indian Sign Language (ISL) Translation", 9th International Conference on Computing, Communication and Networking Technologies (ICCCNT). Published in IEEE Xplore, October 2018. [\[paper link\]](#)
- "An Effective Pixel-Wise Approach for Skin Colour Segmentation - Using Pixel Neighbourhood Technique", International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), 2018. [\[paper link\]](#)

## SKILLS

**Programming Languages:** Python, C++, Java

**Machine Learning:** TensorFlow, Pandas, Keras, Scikit-learn, NLTK, Spacy

**Web:** HTML5, CSS3, Angular4, ReactJS, JavaScript, PHP, NodeJS, Flask, Kafka

**Database:** MySQL, MongoDB, Oracle SQL, CassandraDB

**Others:** OpenCV, Numpy, Matplotlib

**Tools:** AWS (EC2, RDS, S3, EKS, Comprehend), Git, Firebase, Matlab, Microsoft Office, Confluence, Google Colab, Heroku

## CERTIFICATIONS

[Deep Learning Specialization \(Coursera\)](#) | [Machine Learning \(Stanford Online\)](#) | [Angular 2 \(Udemy\)](#)