

754 The Alameda, San Jose, CA - 95126

🛘 (+1) 669-281-9590 | 🔀 deshmukh.shantanu@yahoo.com | 🏕 shantanuspark.github.io | 🖸 shantanuspark | 🛅 deshmukhshantanu

Skills_

Java, Python, Tensorflow, Flask, MongoDB, Node js, Express js, Angular, D3.js, Android Development, JSP, JavaScript, PHP, jQuery, MySQL, LAMP, MySQL, Spring Framework, Web Development, HTML, CSS, Linux

Work Experience _

AcuityAl Stanford Startup

Palo Alto, CA

COMPUTER VISION AND MACHINE LEARNING INTERN

June 2018 - PRESENT

- · Using Deep Metric Learning(Tensorflow) for brand object detection and exposing it via REST-ful Flask API;
- Training and Validating on different self-scrapped curated datasets;
- Using Google Cloud virtual instance, AWS S3 bucket, AWS Dynamo db, AWS CodeStar and other cloud services;

San Jose State University

San Jose, CA

RESEARCH ASSISTANT

Jan. 2018 - PRESENT

- Classification of Inhibitors of Hepatic Drug Transporters using deep learning;
- · Working on image processing using openCV and AI algorithms to create visually appealing pictogram of the side effects of medicines & drugs;
- · Using Mongo DB, Express js, Node js & Angular (MEAN) Stack to create an interactive portal, hosted on Google Cloud Platform's virtual instance;
- · Awarded funds by the SJSU College of Science Research, Scholarship, and Creative Activity (RSCA) grant;

Deloitte Consulting LLP

Mumbai, India

BUSINESS TECHNOLOGY ANALYST (DELOITTE DIGITAL)

Nov. 2015 - Aug. 2017

- Coded business use cases in Java for a B2C website, creating REST-ful web services and helped integrating them with the angular front-end;
- · Handled multiple project-critical complex modules, ensuring timely delivery, working under an Agile development model;
- Created a distributed data processing engine using Apache Storm and Apache Kafka, as a Firm initiative to be proposed to a prospective client;

Accenture Services Pvt. Ltd

Hyderabad, India

SOFTWARE ENGINEER

Aug. 2013 - Oct. 2015

- Designed and Developed REST-ful API's fetching data from a SOAP based service for a B2B website in Java along with their jUnit test cases;
- As an initiative, created a XML based automated testing framework to test REST services, saving around 40% of the testing effort;
- Was awarded ACE(Accenture Celebrates Excellence) award for effective team-work and successfully delivering a high risk project;

City Synapse Info Pvt. Ltd. (Internship)

Bangalore, India

WEB DEVELOPER INTERN

Jan. 2012 - July. 2012

- · Maintained the website realtykart.com; adding/editing webpages using full stack(LAMP), managing domains and hosting.
- · Used google apps, AdWords, Designed and edited digital banners/images using Photoshop, gimp, etc.

Academic Projects ____

Obstacle Detection to help Visually Impaired (GuideApp - Android Application)

San Jose, CA

ANDROID SDK, TENSORFLOW LITE, PYTHON

Dec. 2017

- Created an application to alert visually impaired by detecting obstacles on the street
- Trained MobileNet model with self curated images to get an accuracy of 93%

Automated Solar Panel installation layout generation using Object + Edge detection

San Jose, CA

TENSORFLOW (MOBILENET), PYTHON, EDGE DETECTION ALGORITHM

Feb. 2018

- · Detected obstacles on roof, followed by edge detection on each of the detected bounding boxes, to get the obstacle boundaries
- Compared and contrasted results from different algorithms

Text Scrapper and Classifier

San Jose, CA

PYTHON, KNN ALGORITHM, K-MEANS ALGORITHM, TF-IDF

Sept. 2017

- Built a web scrapper to scrap jobs from a few job listing websites.
- · Used tf-idf vectorization and k-NN algorithm to find the top matched jobs for a search query and grouped them using Lloyd's algorithm.

Visualization using Data Sonification and NLP for e-book comprehension using NLTK

San Jose, CA

PYTHON, NLTK, JYTHON, GENETIC ALGORITHM, BOOTSTRAP

Sept. 2017

- Used Jython music to sonify changes in California's temperature over last 80 years.
- POS tagged web scrapped e-books, extracted and visualized relationships between entities(characters and locations).
- · Used genetic algorithm to auto-create a bootstrap based website using characters, locations and events from the book.

JULY 10, 2018 SHANTANU DESHMUKH · RÉSUMÉ

Image Classification, Clustering and Mutation

San Jose, CA

Python, K-Means Clustering, Hierarchal Clustering, Genetic Algorithm

Sept. 2017

- · Classified and Clustered images using k-NN, K-Means and single link hierarchal clustering algorithm
- Performed three fold cross-validation, analyzed and plotted accuracy vs K graph
- Used genetic algorithm to mutate a source image into a destination image.

Data Visualization Web Apps

San Jose, CA

Mongo DB, Express JS, Angular JS, Node JS, D3.JS

Nov. 2017

- Visualized around 5GB of publicly available Obama government's social media data including images, videos and audios on a chronological time-line based interface
- · Visualized California's college's admission data as a force directed graphs, for all academic year's from the year 2003 to 2016.

Rover on Martian terrain

San Jose, CA

C++, OPENFRAMEWORKS

Nov. 2017

- Built an application where on mars terrain a rover(image) can be dragged from the outside and interacted with.
- · Various operations can be performed on the rover, like selection, navigation, manipulation, drag and drop, teleportation, etc.

Proximity Notifier - An Android Application and a Web portal

Mumbai, IN

ANDROID SDK, LINUX, TOMCAT, PHP, MySQL

Nov. 2012 - April 2013

- Created an Android Application and a web portal for proximity based notifications.
- Built using LAMP Stack and Google's Geolocation API.

Extracurricular Activity

Entrepreneurship Cell Website

Mumbai, India

LINUX, APACHE TOMCAT, MYSQL, PHP

March. 2012

- Worked as a Web Manager of Entrepreneurship Cell, an association managed by students to promote entrepreneurial thinking.
- Created their web portal and developed an on-line treasure hunt for their annual event using LAMP stack.

YouTube Channel tutoring Android Application Development

Mumbai, India

Co-Author

Mar. 2012

Started a you-tube channel tutoring android application development, it has around 18k views.

Education

San Jose State University

San Jose, CA

M.S. IN COMPUTER SCIENCE (GPA 4.0)

Aug. 2017 - Exp. May. 2019

KJ Somaiya Institute of Engineering and Information Technology

Mumbai, India

B.S. IN COMPUTER ENGINEERING

July. 2009 - May. 2013

Program Committees

2012	Web Manager,	Entrepreneurship Cell

Mumbai, India

2011 **Event Organizer**, Computer Society of India

Mumbai, India

Honors & Awards

Work

2017	SAP Certified	Development	${\bf Professional},$	SAP	Hybris	Commerce 6.0
------	---------------	-------------	-----------------------	-----	--------	--------------

Mumbai, India

2016 **Applause Award**, For Diligent work and Resourcefulness

Mumbai, India

2014 **ACE Award**, For good communication and effective team work to successfully delivery a high risk project

Hyderabad, India

EDUCATION

2018	Outstanding Academic Achievement	Scholarship	, San	Jose State	University.
------	---	-------------	-------	------------	-------------

San Jose, CA

2011 **Finalist**, National Level Technical Paper Presentation, RAIT, Mumbai.

Mumbai, India

2011 Finalist, Project Presentation Competition, Fc.RIT, Mumbai

Mumbai, India

JULY 10. 2018 SHANTANU DESHMUKH · RÉSUMÉ