Shantanu **Deshmukh**

RESEARCH ASSISTANT · GRADUATE STUDENT · SAN JOSE STATE UNIVERSITY

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

AcuityAI 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%

Distributed Patient Information System Web API   *San Jose, CA*

JAVA, ACTIVE MQ, CASSANDRA DB, HAZELCAST CACHING, SPRING BOOT   *Oct. 2017*

- Built a REST-ful Web API using a distributed system architecture hosted on multiple AWS instances(PaaS)

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.

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 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, India*
2011	**Finalist**, National Level Technical Paper Presentation, RAIT, Mumbai.		*Mumbai, India*
2011	**Finalist**, Project Presentation Competition, Fc.RIT, Mumbai		*Mumbai, India*