Shantanu **Deshmukh**

RESEARCH ASSISTANT · GRADUATE STUDENT · SAN JOSE STATE UNIVERSITY

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Skills

Java, Python, Tensorflow, Flask, MongoDB, Node js, Express js, Angular, D3.js, Android Development, JSP, JavaScript, PHP, jQuery, MySQL, LAMP, 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;
- Using natural language processing to convert unstructured data to a structured format and storing it in MongoDB
- 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;
- Our paper "PediatricDB: Data Analytics Platform for Pediatric Healthcare" has been accepted for an oral presentation at an International Conference ICDIM 2018 held in Berlin, Germany and will be published in IEEE Xplore

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

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

PYTHON, K-MEANS CLUSTERING, HIERARCHAL CLUSTERING, GENETIC ALGORITHM

San Jose, CA

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

MONGO DB, EXPRESS JS, ANGULAR JS, NODE JS, D3.JS

San Jose, CA

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

C++, OPENFRAMEWORKS

San Jose, CA

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

ANDROID SDK, LINUX, TOMCAT, PHP, MYSQL

Mumbai, IN

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

LINUX, APACHE TOMCAT, MYSQL, PHP

Mumbai, India

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

CO-AUTHOR

Mumbai, India

Mar. 2012

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

Education

San Jose State University

M.S. IN COMPUTER SCIENCE **(GPA 4.0)**

San Jose, CA

Aug. 2017 - Exp. May. 2019

KJ Somaiya Institute of Engineering and Information Technology

B.S. IN COMPUTER ENGINEERING

Mumbai, India

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