

AKSHAY ATUL DESHMUKH

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EDUCATION

University of Southern California (USC) , Los Angeles, CA	May 2018
Viterbi School of Engineering	GPA: 3.71
Master of Science, Computer Science (General)	
National Institute of Technology Karnataka (NITK) , Mangalore, India	May 2016
Bachelor of Technology, Computer Engineering	GPA 9.11 (Approx. 3.75)

TECHNICAL SKILLS

Programming Languages and Databases	Python, Java, C/C++, MySQL, MongoDB Exposed To: C#, Matlab
Web Development	HTML, CSS, JavaScript, PHP, Node.js, Express.js Exposed To: AngularJS
Libraries & Tools	Git, ArgoUML, Hadoop, TensorFlow, NumPy, Pandas, Scikit-learn, NLTK Exposed To: Google Cloud, AWS, Caffe
Operating Systems	Linux, MacOS, Windows

WORK EXPERIENCE

Student Worker	Aug 2017 - Present
USC Integrated Media Systems Center , Los Angeles, CA	
<i>Informatics research center with focus on data-driven solutions for real-world applications</i>	
<ul style="list-style-type: none">Renovated Android application to support framework for viewing media files through augmented realityDeveloped PHP scripts for JSON data exchange between server and Android application, and optimized storage by 50%Created Android application to scan areas in Los Angeles for pollution through augmented realityImplemented IMG2GPS algorithm for image geo-localization using SVM classifiers to achieve 88% coverage of test data	
Software Engineer - Intern	May 2015 - Jul 2015
Myntra Designs Pvt. Ltd. , Bangalore, India	
<i>Indian e-commerce company for fashion and casual lifestyle products with annual revenue run-rate of \$1.6 billion</i>	
<ul style="list-style-type: none">Created horizontally-scalable daemon in Java and MySQL to automate complaint registration in Oracle's Rightnow CRMDesigned and developed REST endpoint, logic layer and Data Access Object (DAO) layer to accommodate daemonEquipped daemon with functions to parse media files for storage in Amazon S3Lowered duration of complaint registration from 10 seconds to 3 seconds	

PROJECTS

Authorship Detection	Oct 2017
<ul style="list-style-type: none">Analyzed texts of Shakespeare and Emily Bronte for linguistic and lexical features with NLTKAchieved test accuracy of 94.67% with Naive Bayes classifier	
Interior Design Application for Microsoft Hololens	Aug 2017
<ul style="list-style-type: none">Designed application for Microsoft Hololens to place common types of furniture in real worldImplemented C# scripts in Unity to process spatial maps, and user gesture and commands	
Credit Card Fraud Detection	Jun 2017
<ul style="list-style-type: none">Analyzed skewed data of credit card frauds through correlation and under-sampling with NumPy and PandasConstructed triple-layered neural network with TensorFlow to achieve accuracy of 96% on blind dataset	
Hand-Written Digit Recognition	May 2017
<ul style="list-style-type: none">Applied logistic regression, and K-Nearest Neighbor and SVM classifiers to MNIST dataset with NumPyObtained best accuracy of 98.9% with quadruple-layered convolutional neural network built with TensorFlow	
Advertisement Filtration and Logo Detection	Nov 2016 - Dec 2016
<ul style="list-style-type: none">Collaborated to design a Java application for filtering advertisements and detecting logosConducted motion vector analysis and statistical analysis of audio samples to identify shots containing advertisementsEmployed HSV/HSL histograms to detect logos in video framesSuccessfully deleted advertisements and detected logos in test file	

LEADERSHIP

Computer Science Senator, Viterbi Graduate Student Association, USC	Jan 2017 - May 2017
<ul style="list-style-type: none">Elected to represent students of Department of Computer ScienceCollaborated to organize social and career events for students including coding competitions and faculty-student dinners	