Shantanu Deshmukh

RESEARCH ASSISTANT · GRADUATE STUDENT · SAN JOSE STATE UNIVERSITY · 754 THE ALAMEDA, SAN JOSE, CA - 95126

Skills

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Languages: Python, Java, Haskell Database: MySQL, MongoDB, DynamoDB Cloud: Amazon AWS, Google GCP Machine Learning: TensorFlow, Keras, scikit-learn, numpy, pandas, nltk Web: JavaScript, Angular, Bootstrap, Materialize, jQuery, d3.js, css, node.js, MEAN Tools & IDEs: Android SDK, GitHub, Eclipse, Jenkins, JIRA, Unix/Linux env

Research Papers

Fine Object Detection in Automated Solar Panel Layout Generation

yout Generation Orlando, FL

IEEE 17TH INTERNATIONAL CONFERENCE ON MACHINE LEARNING AND APPLICATIONS (ICMLA 2018)

In Press

Machine Learning for Classification of Inhibitors of Hepatic Drug Transporters

Orlando, FL In Press

IEEE 17TH INTERNATIONAL CONFERENCE ON MACHINE LEARNING AND APPLICATIONS (ICMLA 2018)

Parlin Carman

Pediatric DB: Data Analytics Platform for Pediatric Healthcare

Berlin, Germany Sept. 24–26, 2018

IEEE 13TH INTERNATIONAL CONFERENCE ON DIGITAL INFORMATION MANAGEMENT (ICDIM 2018), PP. 216-221

Work Experience

AcuityAl Stanford Startup

Palo Alto, CA

COMPUTER VISION AND MACHINE LEARNING INTERN

June 2018 - PRESENT

- Improved image detection accuracy by hyper-parameter optimization on different models like ResNet, VGG, MobileNet, Inception, etc. and modifying existing layers/models as per the use case
- Extracted, transformed and cleaned large dataset on Linux based cloud machines to train AI models
- · Performed supervised learning with feature extraction and principal component analysis for feature reduction

San Jose State University

San Jose, CA

RESEARCH ASSISTANT

Jan. 2018 - PRESENT

- · Used machine learning to classify inhibitors of hepatic drug transporter's SMILES strings
- Applied traditional machine learning techniques(SVM, random forest) and compared the results with deep learning models(RNNs, LSTM)
- Converted unstructured medical text to a structured format using Natural Language Processing and exposed it using MEAN Stack on Google Cloud
- · 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

- Evaluated as a top performer for implementing multiple business modules in Java, overcoming obstacles, and ensuring timely delivery working under an agile development model
- · Helped in architectural design of large-scale projects considering trade offs and effectively communicating across the team and the client
- · Created a distributed data processing engine using Apache Storm and Apache Kafka, as a Firm initiative to be proposed to a prospective client
- Awarded SAP Hybris Commerce development professional certificate

Accenture Services Pvt. Ltd

Hyderabad, India Aug. 2013 – Oct. 2015

SOFTWARE ENGINEER

• Designed and developed multiple use cases in Java along with their jUnits satisfying user requirements

- · Created a XML based automated testing framework, to test REST services, saving around 40% of the previous testing effort
- Awarded ACE(Accenture Celebrates Excellence) award for effective team-work and successfully delivering a high risk project

Academic Projects

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

San Jose, CA

TENSORFLOW, PYTHON, ANDROID SDK

Dec. 2017

• Created an application to alert visually impaired by detecting obstacles on the street by training a MobileNet model to get an accuracy of 93%

Text Scrapper and Classifier

San Jose, CA Sept. 2017

 ${\tt PYTHON, KNN\,ALGORITHM, K-Means\,Algorithm, TF-IDF}$

JCP1. 2011

• Built a scrapper to scrap jobs listings followed by tf-idf vectorization and k-NN to find the top matched jobs and grouped them using Lloyd's algorithm

Image Classification, Clustering and Mutation

San Jose, CA Sept. 2017

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

• 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

Education

San Jose State University M.S. IN COMPUTER SCIENCE (GPA 4.0)

San Jose, CA

• Awarded a **Scholarship** for Outstanding Academic Achievements

KJ Somaiya Institute of Engineering and Information Technology

Aug. 2017 - Exp. May. 2019

B.E. IN COMPUTER ENGINEERING

July. 2009 - May. 2013

Mumbai, India

OCTOBER 12, 2018 SHANTANU DESHMUKH · RÉSUMÉ