

Piyusha Jaisinghani

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EDUCATION

University of Central Florida, United States

Intended Grad: May 2020

Master's in Computer Science

GPA: 3.86

Course Work - Machine Learning, Artificial Intelligence, Design & Analysis of Algorithms, Intelligent Systems, Malware Software Vulnerability, Natural Language Processing, Advanced Computer Architecture, Incident Response Technology, Computer Forensics I, Computer Forensics II.

Visvesvaraya Technological University, India

2008-2012

Bachelor of Engineering in Electronics and communication

73.36% (GPA: 3.6)

TECHNICAL SKILLS

Languages Known: Java, Python, Galen, Cucumber

Web Services: WSDL, SOAP, Rest Services

Content Management System: AEM 6.0,6.1,6.2

Control Management Tools: TortoiseSVN,GIT

Build Tools: Jenkins, Bamboo

EXPERIENCE

SapientNitro, India as Associate Technology Level 2

May 2016 – Oct 2017

MGM Resorts

- Development and maintenance of 11 websites of MGM used to book hotels, restaurants, cabana and other facilities.
- Responsible for requirement gathering, design, development of webservices and AEM components using Java.

Galen UI automation for MGM

- Built an automation project to create Galen scripts for testing UI of the various websites and it's tools under MGM project.
- Worked as the tech lead managing a team of 4 members.

Support, Design & Development of KPMG

- Support, development and maintenance of KPMG's consumer facing websites of 80 countries.
- Design, creation of services and AEM components for the development of new features.

UnitedHealth Group Information Services (Now Optum), India as Application Developer II

Jan 2013 – April 2016

UHC Consumer Portals

- UHC Medicare and Retirement Consumer Portals has view, search, enrollment and other tools.
- Tech lead of the project within the portals, involved in analysis and estimation of requirements, design and development.
- Stakeholder Management: business, PM, Dev, SA and QA to ensure effective progress.

Continuous Improvement (Automation)

- Built an automation testing tool for website using Cucumber JUnit, comparing the actual and expected behavior and help identify bugs during the development cycle.

ACADEMIC PROJECTS

Designed a k-Nearest Neighbor Classifier for hand written digits MNIST dataset

- Performed 10-fold cross validation to obtain an optimal k for classification, hence used the optimal k for classification.
- Using the sliding window over the images in the MNIST dataset improved performance. Evaluation done using Confusion Matrix and Confidence Interval.

Implemented Support Vector Machine for UCI Glass data classification

- Using scikit-learn designed one-vs-one, one-vs-all classifiers testing with various kernels of SVM(linear, RBF, polynomial, sigmoid) and performed 5-fold cross validation for hyper-parameter tuning with respect to each kernel.
- Since the UCI Glass dataset is unbalanced, implemented the weighted one-vs-one SVM classifier.

Super Resolution using Convolutional Neural Network

- Created a CNN to generate a super resolution image for a particular image (png/jpg). The CNN has an input layer, 8 hidden layers and output layer which produces a sharp image.

Uncovering Inter-Disciplinary Relations using Generative Adversarial Networks

- Implemented an unsupervised learning model (DiscoGAN) to discover cross-domain relations. Model is trained on multiple datasets.
- Identifies inter-disciplinary relations and is able to perform style transfer successfully with the help of identified relations.

Classification of amazon, imdb and yelp user reviews

- Implemented n-gram model to extract the feature representation of each review in the dataset using n= 1,2,3,4,5.
- Along with individual feature representations, experimented with combined feature representations of reviews to add more meaning to the representation. Using Logistic Regression as a binary classifier, classified the reviews into good or bad.

Q-learning in Amazon Web Services (AWS) RoboMaker

- Built a robot application to train a TurtleBot Waffle Pi to learn to drive autonomously toward a stationary TurtleBot Burger.
- Used various AWS Consoles like IAM Console, Amazon S3 Console, AWS RoboMaker console, AWS Cloud9 console

AWARDS AND ACHIEVEMENTS

- Recipient of SapientNitro Supernova Award 2017 for innovation and TDD initiatives.
- Received Star Award 2015 & 2016 in UHG for excellent performance and delivery.