

# 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:** Adobe Experience Manager (AEM) 6.0,6.1,6.2

**Control Management Tools:** TortoiseSVN, GIT

**Build Tools:** Jenkins, Bamboo

**Python Packages:** Scikit-learn, NumPy, Pandas, NLTK, Matplotlib, Keras, OpenCV

**Others:** Machine Learning, Agile, Scrum, Test Driven Development, Waterfall model, Jira

## 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*

- 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.