Muskan Singhal

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EDUCATION

Master of Science, Computer Science August 2019-May 2021 (expected)
Arizona State University, Tempe, Arizona CGPA: 3.56 / 4.0

Bachelor of Engineering, Computer Science and Engineering August 2014 - August 2018
PES Institute of Technology, Bangalore, India CGPA: 8.87 / 10.0

WORK EXPERIENCE

Associate Software Engineer August 2018 - April 2019
Electronics for Imaging | Bangalore, India

- Developed data processing API for updating and removing merchants from Self-Serve Admin Central Product, a cloud-based web application using .NET framework and Entity framework.
- Created API for generating reports for various devices and customers as well as removed sticky session dependency.
- Updated login access for the application to include username in addition to email-id.

Software Engineer Intern January 2018 - May 2018
Electronics for Imaging | Bangalore, India

- Developed a framework using Python to generate printer's usage-based simulation data when the printer is offline which helped in reducing the dependency on printers by 90%.
- Automated the workflow by uploading the events to cloud over web-socket connection.
- Documented the workflow and installation steps for helping with end to end testing.

Research Intern June 2016 - July 2016
Defense R&D Organization | Bangalore, India

- Developed an optimizer for fuel control circuitry in the Light Combat Aircraft using C language.
- Implemented Fractional Order PID Controller using Particle Swamp Optimization technique.
- Simulations were carried out using MATLAB software and performance parameters were calculated.

PROJECTS

Data estimation and classification Arizona State University, Fall 2019

- Performed parameter estimation on MNIST dataset for handwritten images and classified digits using Naive-Bayes Classifier and achieved an accuracy of 91%.
- Trained Logistic Regression Model using Gradient-Ascent Algorithm to model the probability of digits.
- Compared the performance and accuracy of both the models.

Automatic Image Colorization PES Institute of Technology, Spring 2018

- Developed a model for automatically colorizing gray-scale image using Gated-Pixel CNN.
- Entire application could colorize the image without any user intervention and was trained using LSUN dataset.
- Deployed the model on the server using Ngrok Reverse Proxy Server.

Spam Mail Classifier PES Institute of Technology, Fall 2017

- Developed a spam mail classifier using Naive-Bayes and Support Vector Machine algorithms which classifies mail as ham or spam.
- Using the model, was able to achieve an accuracy of 97%.

SKILLS

- Programming Languages - Python, C#, Java, C, PHP,
- Web Development - HTML, CSS, JavaScript, JQuery, Bootstrap, Angular JS, Knockout JS
- Technologies - MySQL, ASP.Net Framework, TensorFlow, Keras, Jira, Netbeans, JMeter, Scikit-learn, Android Studio, NumPy