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Skills

<u>Languages:</u> Python, SQL, C#, Java

MySQL, MongoDB

Spark, Azure, AzureML, SPSS

Docker, Flask, Heroku

Git, JIRA, Jenkins, Circle CI

<u>ML Libraries:</u> TensorFlow, NumPy, Pandas, Scikit-Learn, Matplotlib, NLTK

OS: Windows, Linux

<u>Testing tools:</u> PyTest, Robot Framework, Appium, JUnit, Cucumber

Education

Master of Engineering, Electrical and Computer Engineering

University of Waterloo, Canada. CGPA – 9.2/10

Bachelor of Technology, Electrical and Electronics Engineering

Vellore Institute of Technology (VIT) University, India. CGPA – 9.05/10

Sai Anurag Neelisetty

Graduate student at University of Waterloo | Software Developer | Machine Learning Engineer | Certified TensorFlow Developer | Azure

Summary

3.5 years of professional experience in the software industry. Experienced in Agile methodologies. Passionate about building applications that leverage machine learning to solve problems. Skilled in cleaning, analyzing, visualizing, interpreting insights from data & building machine learning models. Also, experienced in automation testing & building applications (Windows standalone, Android).

Professional Experience

Renault Nissan Technology and Business Centre India [RNTBCI]

Machine Learning Engineer   [Jan 2020 - Dec 2020]

- Contributed to developing an automated machine learning (AutoML) web-based application using which employees can request new ML algorithms or use the existing algorithms. Responsible for implementing ML solutions in the back end with Python.

- Developed machine learning prototypes to solve client case studies like predicting product weights to mitigate manual errors, classifying custom codes of automobile parts to make the manual code assignment faster.

Software Developer   [July 2017 - Dec 2019]

- Project 'Matrix', a Linux-based framework for testing connected car service APIs of Connected Cars System – version 2. Developed low-level & high-level keywords, automation scripts in Python to test HMI using Robot framework, Appium.

- Project 'Optimus', a framework to test APIs of Connected Cars System – version 1. Developed automation scripts in Java using Junit, Cucumber, TestNG. Integrated 'Canakin', a tool to communicate with the CAN bus through gRPC to Optimus.

- Project 'Car State', a windows based standalone application developed in C# to help manual testers interact with CAN bus signals and to visualize them. Responsible for developing new features and maintaining the repository.

- Worked as Augmented & Virtual Reality app developer building applications in Unity. Applications include displaying the customer different variants of dashboard inside the car, scanning cars to display features, and a virtual car showroom.

Academic Projects

- Music2Score – A web application to convert audio files to sheet music. Developed Python scripts to make the conversion in the back end, test scripts, containerized the conversion using Docker and set up continuous integration.

- Statistical Analysis – Performed analysis on a survey data from brand X using SPSS, a statistical software. Applied statistical techniques to analyze, interpret and answer multiple questions on the data to understand the customer purchasing behaviour.

- Image Colorization – Literature review of state-of-the-art algorithms was performed on the image colorization problem. Colorization of grayscale images was then enhanced using transfer learning inspired by EfficientNet-B4 architecture.

- Recurrent Neural Network – Generated artificial poems using word-based and character-based text generation techniques with Bi-directional Long short-term memory Recurrent Neural Network architecture.

- Transfer Learning – Lysine (Protein) methylation sites were accurately predicted for imbalanced data using Convolution Neural Networks inspired by VGG architecture.

Professional Achievements

- Best New Employee award at RNTBCI for quickly adapting to new technologies and for quality deliveries.

- Versatile Employee award at RNTBCI for working on multiple technologies and contributing to various teams.

- Visited Connected Vehicles team in France to collaborate and develop an application in connected cars space.

Publications

Maximum Power Point Tracking for Solar Panels using Ant Colony Optimization
S. K. Sahoo, B. M, S. Anurag, R. Kumar and V. Priya, "Maximum Power Point Tracking for PV Panels using Ant Colony Optimization," in International Conference on Innovations in Power and Advanced Computing Technologies [i-PACT2017], Chennai, 2017.