Sai Anurag Neelisetty

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Summary

- 3.5 years of professional experience in the software industry. Experienced in Agile methodologies.
- Masters in Electrical and Computer Engineering - specialization in Artificial Intelligence.
- Passionate about building applications that leverage machine learning to solve problems.
- Skilled in cleaning, analyzing, visualizing, interpreting insights from data and building machine learning models.
- Experienced in automation testing and building applications (Windows standalone, Android).

Skills

- **Languages**: Python, SQL, C #, Java
- **ML Libraries**: TensorFlow, NLTK, NumPy, Pandas, Scikit-Learn, Matplotlib
- **Technologies and Tools**: MySQL, MongoDB, Spark, Azure, AzureML, SPSS, Docker, Git, Jenkins, Circle CI, Jira, Flask, Heroku
- **Testing tools**: PyTest, Robot Framework, Appium, JUnit, Cucumber

Education

- **University of Waterloo** — Waterloo, Canada
  Master of Engineering in Electrical and Computer Eng.; GPA: 3.68 (9.2/10.0) — *Jan. 2021 – Apr. 2022*
  - Data & Knowledge Modelling & Analysis
  - Tools of Intelligent Systems Design
  - Image Processing & Visual Communication
  - Data Analysis & Management
  - Data-Intensive Distributed Computing
  - Foundations of Software Engineering

- **Vellore Institute of Technology (VIT)** — Vellore, India
  Bachelor of Technology in Electrical and Electronics Eng.; GPA: 3.62 (9.05/10.0) — *July. 2013 – May. 2017*

Experience

- **Renault Nissan Technology and Business Centre India (RNTBCI)** — Chennai,India
  Machine Learning Engineer — *Jan 2020 - Dec 2020*
  - **AutoML**: Contributed to developing an automated machine learning web-based application using which employees can request new ML algorithms or use the existing algorithms. Responsible for implementing ML solutions in the backend with Python.
  - **Algorithms**: 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*
  - **App Development**: Worked as Augmented and 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.
  - **Car State**: A windows-based standalone application developed with windows presentation foundation (WPF) in C # to help manual testers interact with CAN bus signals and to visualize them. Responsible for developing new features and maintaining the repository.
  - **Matrix**: A Linux-based framework for testing connected car service APIs of Connected Cars System – version 2. Developed low-level and high-level keywords, automation scripts in Python to test HMI using Robot framework, Appium.
  - **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.

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.

Certifications

- Certified TensorFlow Developer
- DeepLearning.AI TensorFlow Developer Specialization
- TensorFlow: Data and Deployment
- Microsoft Certified: Azure AI Fundamentals
- Microsoft Certified: Azure Fundamentals
- AWS Machine Learning Foundation

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.