**Gajanan P. Wadekar**

682-597-9368 | wadekar.gp@gmail.com | www.linkedin.com/in/gajananwadekar | https://github.com/wadekarg

**Summary**

Recently graduated Computer Science professional with 2.5 years of experience as a Software Developer and an internship as a Machine Learning Engineer Intern. Excellent reputation for resolving problems, improving customer satisfaction, and driving overall operational improvements. Seeking full time opportunity in the field of Machine Learning/Software Engineering.

**Education**

**The University of Texas at Arlington, TX August 2018 – August 2020**

Master of Science - Computer Science

**Relevant Coursework:** Data Structures and Algorithms, Machine Learning, Neural Network, Computer Vision, Reinforcement Learning, Data Science, Data Mining, Web Data Management

**University of Pune, MH, India August 2011 – June 2015**

Bachelor of Engineering – Electrical Engineering

**Technical Skills**

**Programming Languages:** Python, C, PHP, SQL, C#, C++, MATLAB

**Web Technologies:** HTML, CSS, JavaScript, .Net, Flask, AJAX, REST, API, LARAVEL, WORDPRESS, REST

**Python Libraries:** Pandas, Scikit-Learn, NumPy, TensorFlow, PyTorch, NLTK, Keras, Matplotlib, Seaborn, OpenCV

**Others:** MySQL, MS SQL Server, AWS, Agile, SDLC, Artificial Intelligence, NLP

**Professional Experience**

**Machine Learning Engineer Intern, Foxbat Research, Dallas, Texas September 2019 – December 2019**

* Performed image classification benchmarking analysis by using transfer learning on pre-trained deep learning models in Keras and PyTorch to replace the existing model with the more efficient and accurate model.
* Collected and Annotated training data images to perform preliminary object detection. Estimated test set accuracy and GPU inference time for 2 new objects using the TensorFlow Object Detection API in preparation for deployment to Google Edge TPU device.
* Analyzed generalization performance of state-of-the-art sentiment analysis models (Google's BERT, OpenAI's Sentiment Neuron) on multiple data sources including Twitter, IMDB comments, and Amazon reviews to incorporate the best one into language model.
* Conducted sentiment analysis on the above-mentioned data using various readily available sentiment analysis APIs from Google, Microsoft, and AWS to use the best model into language model.
* **Technologies**: Python, SQL, OpenCV, Keras, TensorFlow, PyTorch, Tweepy, NLTK, Scikit-Learn, APIs, REST

**Sr. System Engineer, Infosys BPM Ltd, Pune, India March 2016 – August 201****8**

* Designed and Implemented an end to end Robotic Process Automation (RPA) for 11 processes in the financial domain using Automation Anywhere to automate key functionalities in the accounting domain (Accounts Receivable, Accounts Payable).
* The Project involved requirement gathering, feasibility study, architecture design, development, testing, and solution deployment.
* Achieved 4 full-time-equivalent (FTE) reductions and 75% average handling time reduction using implemented RPA solution.
* Incorporated a new process into existing the OEMS model that streamlines communication between clients, operations, and developers.
* Enhanced database efficiency by optimizing the stored procedures and queries that reduced average process completion time by 28%.
* Modified service level agreement (SLA) management functionality for each process under an application to achieve a 45% reduction in customer complaints related to SLA.
* Awarded Infosys ‘Rising Star’ and ‘Extra Miler’ Award for best performance.
* **Technologies**: C#, ASP.Net MVC, SQL, HTML, CSS, Python, JavaScript, Automation Anywhere, MS Excel, MS Word

**Projects**

**Used car price prediction** *(Course Project – INSY 5378 Data Science)* **Summer 20**

* Cleaned the data, performed data modeling, exploratory data analysis, and developed numerous machine learning models (Linear, Ridge, and Lasso Regression, Random Forest, Gradient Boosting, and Neural Network) to predict the price of the used car.

**Future stock price trend prediction using deep learning** *(Hobby Project – CSE 6363 Machine Learning)* **Summer 20**

* Developed a Machine learning model to predict future stock price trend using Recurrent Neural Network model and LSTM.
* Performed Exploratory data analysis on historical stock market data for a specific company to find out significant patterns in data.

**Chess piece position detection and tracking** *(Course Project – CSE 6367 Computer Vision)*  **Summer 20**

* Developed a computer vision (CV) model to detect, locate, and track the moves of the chess pieces on chessboard.
* Implemented traditional CV techniques (Hough Transform and Harris Corner Detection) to detect the lines and corners on the board.
* Trained deep neural network object detection model to identify the chess pieces on the board by feeding them a pre-processed image.

**Food chain restaurant website** *(Course Project – CSE 5335 Web Data Management)* **Spring 20**

* Designed and Developed a simple web application using HTML, CSS, JavaScript, PHP, and Laravel to manage and streamline food ordering and delivery for a restaurant. <https://gxw9374.uta.cloud/project2/Inicio.php>
* This application includes sign up/sign in, user and admin dashboard, profile, blogs, settings, and order processing capabilities.

**Person detection in video frames** *(Course Project – CSE 5392 Introduction to Computer Vision)*  **Spring 19**

* Built-up a CV model that detects a person in video frames by applying image processing filters like erosion, dilation, and thresholding.
* The model has accomplished 100% accuracy in finding a person in the image and drawing a bounding box around it accurately.