VISHWESH RAVI SHRIMALI

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EDUCATION

Great Lakes Institute of Management *March 2019 - June 2019*
Deep Learning Certification Program

Birla Institute of Technology and Science, Pilani *July 2014 - July 2018*
Bachelors in Technology CGPA: 9.21/10.0
Department of Mechanical Engineering

Kendriya Vidyalaya STPS Suratgarh *July 2012 - June 2014*
Senior Secondary High School, Class XII. Overall Percentage: 93.8

Kendriya Vidyalaya STPS Suratgarh *July 2010 - July 2012*
Secondary High School, Class X. Overall Percentage: 95.0

CAREER OBJECTIVE

To work for an organization in the field of Computer Vision and Deep Learning, which gives me the platform to furnish my skills as well as benefit the organizational objective.

WORK EXPERIENCE

Great Lakes Institute of Management October 2019 - Present
Project Mentor

· Project Mentor for Secure Coding module in Stanford Advanced Computer Security Program offered by Stanford University in collaboration with Great Lakes.

Apress April 2019 - October 2019
Technical Reviewer

· Technical Reviewer for Deep Learning Pipeline: Building a Deep Learning Model with TensorFlow by Apress.

Packt Publications September 2018 - March 2019
Author

· Wrote a book: Machine Learning for OpenCV, 2nd edition for Packt Publishing with Co-Author: Aditya Sharma. The book focuses on using OpenCV library for Machine Learning tasks and provides a comparison with the famous Scikit-Learn module in Python.
Currently working on OpenCV Workshop book by Packt Publishing to be released in January 2020. The book will cover topics from image and video processing, and advanced object detection, tracking and recognition.

Big Vision LLC June 2018 - December 2019
Deep Learning and Computer Vision Expert *Dr. Satya Mallick*

· (Remote Job) Contributing in making course content for the OpenCV Official Computer Vision Course. Worked for several clients for the Consultancy Firm, Big Vision LLC to provide Computer Vision and Deep Learning solutions.

PROJECTS

Modifying HMMs and Viterbi algorithm for POS tagging
Modified the Viterbi Algorithm to solve the problem of unknown words using morphological cues and using only one of the transition or emission probabilities for unknown words. The accuracy was increased from 87% to 93%.

Identifying potential customers for loans
Identified potential loan customers for Thera Bank using classification techniques. Compared models built with Logistic Regression and KNN algorithm in order to select the best performing one.

Predicting the term-deposit subscription
Leveraged customer information of bank marketing campaigns to predict whether a customer will subscribe to term deposit or not. Different classification algorithms like Decision tree, Logistic Regression were used. Ensemble techniques like Random forest were used to further improve the classification results.

Health Insurance
This project used Hypothesis Testing and Visualization to leverage customer's health information like smoking habits, bmi, age, and gender for checking statistical evidence to make valuable decisions of insurance business like charges for health insurance.

Fake News Detection
The goal of the Fake News Challenge was to explore how artificial intelligence technologies, particularly machine learning and natural language processing, might be leveraged to combat the fake news problem.

Face Recognition
The objective of this project was to build a face recognition system, which included building a face detector to locate the position of a face in an image and a face identification model to recognize whose face it is by matching it to the existing database of faces.

Recognizing multi-digit numbers in photographs captured at street level
In this project, the goal was to build a python/Keras/TF code for image classification to understand the nitty-gritty of building and training a neural network model from scratch and further understand the advantages of neural networks over.

MIFARE Smart Cards Based Offline Iris and Fingerprint Detection and Recognition
To create an offline, user-friendly, time-saving, low cost and secure method of biometric scanning and matching, as well as database maintenance. This project was awarded with a Cash Prize of INR 10K and First Prize in Project Presentation Competition at BITS Pilani.

TECHNICAL STRENGTHS

Computer Vision and Deep Learning Libraries	PyTorch, Tensorflow, OpenCV, NumPy
Software & Programming Languages	Linux, C, C++, C, Python, Javascript, Lua
	Julia, Docker, Binder, MATLAB
	AutoCAD, Scilab