Nisar Ahmed Nanakkal

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Summary

Deep learning | Computer Vision | Image Processing | Video Analytics | R&D | MLOps | Deployment |

Work Experience

BLP Industry.ai
Bangalore, India

Data Scientist(Visual Analytics)
Jan 2021 - Present

- Developing, testing and deploying various classification, detection, tracking applications in different manufacturing industries.
- Managing data gathering, cleaning, annotation and re-training the model to ensure the promised accuracy.
- R&D of the latest and the state of the art methods for model performance improvement, model deployment and pipeline design.
- Handling variety of use cases of face recognition, auto encoder, similarity based selection, tracked detection, un balanced classification etc.
- Docker, Kubernetes, Windows executable deployments, either cloud or on premise.

Adora Infosolutions
Calicut, India/ Doha, Qatar

Data Scientist(Deep Learning)
Dec 2018 - Jan 2021

- **Defect Detection System** - Developed models to detect the defects of manufactured RF components.
- Trained and deployed object detection model on a dataset with labelled defects images
- Managed to serve multiple models in separate micro services for a smooth inference and more generalized predictions
- Managed annotation team to produce high quality labelled images for training.
- Developed reverse image search tool to find similar images from a large database for a given image.
- Managed to design a feature to show similarity of given image with the products available in market.
- Managed annotation process using different tools like CVAT,VGG, Labelimg etc
- Developed and implemented Realtime performance monitoring of staff

Asthra Hesel Innovative Solutions LLP
Kochi, India

Technical Engineer
Apr 2016 - June. 2018

- Developed and Maintained scheduled programs to automate cleaning and bagging for data from sensors.
- Developed and maintained micro services deployments and back-end communications

Education

University of Kerala
TKMCE, Kerala, India

Bachelor's Degree in Electronics and Communication Engineering
Jun 2011 - Jul. 2015

- Secured a CGPA of 7 out of 10

MOOCS

Deep learning specialization by Andrew Ng
deeplearning.ai, Coursera

- This five course specialization provided in depth understanding of ANN,CNN,RNN exploring case studies from healthcare, autonomous driving, natural language processing etc.
- Implemented projects for image recognition, image classification, multi-class classification, object detection, face recognition using various frameworks like keras,tensorflow and libraries like PIL,openCV based on imagenet dataset

Machine Learning
Stanford University, Coursera

- This course enhanced my knowledge in supervised and unsupervised learning and strengthened many state of the art algorithms in Machine learning
- Implemented mini projects using SVM, PCA,Clustering, KNN etc

Skills

Programming	Objected oriented Python, C, C++
OS	Linux, Windows, Mac
IDE	Colab, Jupyter
Frameworks	Tensorflow, Keras, Flask, tesseract
Tools	restAPI(Flask), AWS/GCP
Techniques	Image classification, detection, tracking, CNN,Video Analytics, SVM, PCA
Extras	ML model deployment in production, Restapi, Docker containers
Miscellaneous	Git, MongoDB, sklearn/numpy/pandas/opencv
Languages	English, Hindi, Malayalam, Tamil