

Nisar Ahmed Nanakkal

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Summary

Machine learning expert, having 2 years of experience in Deep learning, Computer Vision, Image processing, Video Analytics and ML Model Deployment.

Work Experience

Data Scientist(Deep Learning)

Calicut, India/ Doha, Qatar

DATA SCIENTIST(DEEP LEARNING)

Dec 2018 - Present

- **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.
- **Image Search Tool** - 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.
- **Meat Bone Quality Classification** - *Real time video analytics* to reduce the wastage in a meat processing plant.
- Implemented anomaly detection on live streaming video data to track processed bones.
- Used efficientnet-b3 to process live feeds from 40 cameras. Included CNN feature extractor followed by similarity matching to detect anomaly.
- Detected anomaly bone was fed to classifier to see if it is left with meat on it.
- Setup and hosted annotation tool and managed annotation process
- Setup development server on GCP, defined various pipelines to organise dataset of size more than 300GB per week
- **Employee Performance Evaluation** Implemented Agent Identification from Real-time video using *Aruco* code tagged on the helmets.
- Implemented Realtime monitoring of workers to evaluate the average time per meat processing.

Asthra Hesel Innovative Solutions LLP

Kochi, India

TECHNICAL ENGINEER(IOT, EMBEDDED SYSTEMS)

Apr 2016 - June. 2018

- Electrical energy savings using decisions from predictive data analytics
- 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

T.K.M College of Engineering (University of Kerala)

Kollam, 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 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

CS 231n

Stanford University

Skills

Programming Object oriented Python, C, C++

OS Linux, Windows, Mac

IDE Colab, Jupyter

Frameworks Tensorflow, Keras, Flask

Tools restAPI(Flask), AWS/GCP

Techniques Image classification, detection, CNN, Video Analytics, SVM, PCA, Naive Bayes

Extras ML model deployment in production, Restapi, Docker containers

Miscellaneous Git(version control), MongoDB(DB), sklearn/numpy/pandas

Languages English, Hindi, Malayalam, Tamil