NIRANJAN KUMAR M

DATA SCIENTIST ENGINEER

Contact

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LinkedIn Profile

Key Skills

Specialization: Machine Learning and Deep Learning.
Languages: Python, C++ with oops, Linux, Bash Scripting
Version Control: GitHub Enterprise and GitLab
Additional Skills: Embedded AI, VLSI and Signal Processing, SQL

Education

Aug 2016 - July 2020
Bachelor of Technology (Electronics and Communication Engineering)
Pes University, Bengaluru, India
Specialization: Signal processing (Machine Learning Domain)

Courses and Licenses

Python and C++ Advanced training on OOP's
Deep Learning Specialization

Profile

- A Engineer at the Artificial Intelligence-Centre of Excellence (AI-COE) Innovation Group function at LTTS (Healthcare), specializing in Applied Research panning multiple ML domains, focusing on cutting edge research involving Graph Representation Learning and other broader areas of AI research like Post Optimization Methodolgies, etc
- As a computer vision professional with 3.6 years of experience, I am skilled in developing and implementing cutting-edge technologies in the field. I have expertise in:
- Computer vision: Image processing, object detection, segmentation, recognition, and deep learning models using OpenCV, TensorFlow, and PyTorch.
- NLP: Sentiment analysis, text classification, named entity recognition, text generation, machine translation, and deep learning models using NLTK, spaCy, and Transformers like BERT, CLIP etc.
- I am dedicated, passionate, and always seeking new ways to apply these technologies to solve real-world problems

Experience

December 2022 – Present

Wabtec Corporation • Data Scientist Engineer • Bangalore, India

- Advisory to Managing peoples for client project's and Algorithmic System owner.
- Module owner of wheel-view, Brake-view and CSC View within Beenavision Vision Product based Measurement system involves overseeing the system's overall development and maintenance.
- Technical developer of New MVA's(Machine Vision Algorithm's) on Systems.
- Leveraged deep technical knowledge to guide the development team in solving complex challenges and optimizing algorithms for precise profile measurements.
- Acted as the primary point of contact for clients, demonstrating excellent communication and interpersonal skills. Engaged with clients to gather feedback, understand their needs, and address any concerns, resulting in increased client satisfaction and repeat business.

January 2022 – November 2022

L&T Technology Services • Machine Learning Engineer • Bangalore, India

- Executing the prototyped on the client's projects and make critical predictions, automate reasoning and decisions, and calculate optimization algorithms.
- Inferencing the ML model on deployment server (AWS) and creation of Flask Api and testing on postman and Gradio api's.
- Analysis the Sensor data and researching on LSTM, LGBM and other model's, Fine tuning the existing model with other model for better identification and deployment on SOM microcontroller using built-in modules for real-time.
- Experimenting on pathological data (clients) for identification and classification different types of diseases and producing an AI based model.

on Coursera
Tensorflow Professional on Udemy.

Hobbies

Research Paper Explorer

Photography

Cricketer

September 2020 - December 2021

L&T Technology Services • Associate Machine Learning Engineer • Mysuru, India

- Building the Transformer, applying on localisation models and evaluating the performance of transformer for better Segmentation.
- Building and create the Identification and localisation models on chest Xray use case and classification of abnormalities.
- Understanding and experimenting the use case with healthcare domain libraries with existing other libraries like NLTK, DCMTK, Pydicom, Openvino.
- Worked on the Flask Api to demo a model to higher management.
- Used role to specialize on localisation models and classification models with fine tuning and freezing layers on it on Yolo, MaskRCNN, Faster RCNN etc...
- Collaborated with other teammates to produce a product developed models and evaluate the performance of model and optimize it.

Patent

- METHOD AND SYSTEM FOR IMAGE PROCESSING AND CLASSIFYING TARGET ENTITIES WITHIN IMAGE.(India & PCT)

Publication

- Deep Ensemble Architecture: A Region Based Model on Chest Abnormalities in ICONIP 2022.
- Deep Ensemble Architecture for Knee Osteoarthritis Severity Prediction and Report Generation. In RAIT 2023.
- CV-CXR: A Method for Classification and Visualisation of Covid-19 virus using CNN and Heatmap. In RAIT 2023.
- Rad-former:Structuring Radiology Reports using Transformers. In RAIT 2023.