Bharath Krishna
RAMNARAYAN BABU

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Byrdstraat 31,

Eindhoven, 5623 PL

SKILLS

Python (Pytorch & Tensorflow)
C,C++
MATLAB,Simulink
IBM Rhapsody
KNIME
ClearML, W&B
GitHub
Docker

LANGUAGES

English – C1

Tamil – Mother tongue

Hindi – C1

German – A2

Dutch -A1

Relevant Books read –

Introductory statistics by OpenStax

Hands on ML with scikit learn , keras and tensorflow (orielly)

Automotive technology Graduate

Specialisation: Computer Vision | Deep Learning | Autonomous systems | Mobile robotics

Profile

I have a master's degree in automotive technology with a specialization in computer vision. I am eager to launch my career in the realm of AI, Machine learning and robotics. I am passionate and curious to use AI to solve challenging real-world problems.

E D U C AT I O N

Master of Science Automotive Technology
(Track – Computer vision, Mobile perception systems lab, SPS-EE)
Eindhoven University of Technology, Eindhoven, Netherlands| August 2022 – November 2024

Vehicle Dynamics | Powertrains | Real time software engineering | Model based system engineering | Computer Vision | CNN | Embedded visual control Data driven AI | Advanced sensing using deep learning | 3D image processing.

Bachelor of Technology Automobile engineering - Distinction
SRM University of Technology, Chennai, India | June 2022
GPA: 9.02/10

Experience / Projects

Univrses AB – Graduate thesis intern (January'24 – October'24)
Stockholm, Sweden

Master's thesis jointly with MPS lab, TUe under the supervision of Dr Gijs Dubbelman and Dr Pavol Jancura. Developed a semi supervised semantic segmentation model with extremely imbalanced road damage data for predictive maintenance of roads | Semi supervised learning | Transformers | Voxel51 | AWS | Pytorch | Ubuntu

Avular Innovations B.V – Intern (September'23 – December'23)
Eindhoven, Netherlands

Road segmentation model for asphalt edge detection with an IoU of 97 for Autonomous Road cutting | Binary Semantic segmentation | Road edge detection | Out of distribution generalization (OOD) | Data augmentation | Torchvision | Pytorch| Albumentations | Kornia | HPC | Open-source datasets used: CAMVID, Berkeley Deep drive, Cityscapes, Wilddash

Data Driven AI (Course)–
Eindhoven University of technology
Statistical description of data | Data preprocessing and visualization | Supervised Unsupervised methods | Temporal data mining | XAI | NLP | Time series forecasting with LSTM |

Personal projects -
Learning app development using Kotlin to create a real time object detection app for blind people (Ongoing) | Predicting real estate prices for different properties using TensorFlow and Keras (completed)

COMPUTER VISION | CONVOLUTIONAL NEURAL NETWORKS -
Eindhoven University of technology

Radar DOA prediction using deep learning & simulated snapshot data
Anomaly detection using Autoencoders.
Semantic segmentation on Cityscapes dataset

IMPLEMENTATION OF SELF DRIVING CAR FEATURES ON A 1:18 PROTOTYPE JETRACER (BACHELOR'S THESIS ,2022) -
Implemented Self Driving Car features:
Lane following | collision avoidance | Pytorch | OpenCV | Jetson NANO SLAM| ROS | 2D Lidar.

SELF DRIVING CAR CHALLENGE 2021 - Society of Automotive engineers India