

Muhammad Naseer Subhani

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Hi!

Computer Vision Engineer with expertise in deep learning, embedded systems, and industrial AI solutions. I specialize in developing scalable, efficient solutions for bridging the gap between cutting edge AI and real world challenges, my work strives to enhance productivity, sustainability, and progress globally.

Experience

Apex Treasure Sdn Bhd | Computer Vision Engineer

Remote | Pakistan
Jan 2023 – **Present**

- Working on classification, object detection and segmentation model, with a strong focus on optimizing performance for embedded systems and low-power hardware.
- Implementing AI-driven solutions for industrial projects, addressing complex operational challenges and delivering computer vision systems to enhance performance and efficiency.
- Gaining experience in integrating computer vision solutions into embedded platforms, ensuring seamless compatibility and functionality with existing hardware and software.

Thinkorithm | Consultant

Part Time | Pakistan
June 2022 – Present

- Optimized financial data analysis pipelines by integrating diverse datasets."

Nommas | Software Engineer

Jeddah | KSA
Sep 2021 – May 2022

- Worked on vision based AI inspection system for manufacturing industry.
- Worked in C/C++, Python, JavaScript programming, including software design, optimization and debugging for making better products.
- Design accurate and scalable prediction algorithms.
- Collaboration with mechanical engineering team to bring prototypes to production.
- Worked in different lightweight devices such as Nvidia Jetson Xavier NX, Jetson TX2, and Industrial Jetson Xavier NX.
- deployment of the system for different companies i.e Savola Group, SaudiCan, Nepco and Aquat food industries.

Nommas | Deep Learning Engineer

Jeddah | KSA
Aug 2020 – Sep 2021

- Train, Test and deployment of deep learning models, such as semantic segmentation, object detection and anomaly detection.
- Worked on different Python framework as PyTorch, Tensorflow, Keras, and OpenCV.
- Deployments of different algorithms from research to production.

Information Technology University | Research Associate

Lahore | Pakistan
Jan 2018 – Nov 2019

- Worked in computer vision tasks in semantic segmentation.
- Deploy Apollo.auto on Nvidia Jetson TX2 (an android for self-driving vehicles).
- Worked in domain adaptation problem. Acceptance of paper "Learning from Scale-Invariant Examples for Domain Adaptation in Semantic Segmentation" in ECCV2020

Education

- MS** **Information Technology University** | Electrical Engineering Sep 2016 – April 2018
- Major in Deep learning and Embedded System.
 - **Thesis:** Learning from Self-Generated Scale-Invariant Examples for Domain Adaptation in Semantic Segmentation
- BS** **University of Lahore** | Electrical Engineering Sep 2012 – May 2016
- Major in Communication and Embedded System.

Publications

- Learning from Scale-Invariant Examples for Domain Adaptation in Semantic Segmentation** ECCV 2020
- M.Naseer Subhani*, Mohsen Ali
- [Paper](#) | [Code](#)

Skills

- Languages:** Python, C++, Dart, C#, SQL, JavaScript, Shell, Java
- Technologies:** Computer vision, Software design and development, Android and IOS Development
- Soft Skills:** Communication, Creativity, Time Management, Efficient debugging of deep learning pipelines, Collaboration with cross-functional teams

Honors

- Microsoft Awarded 10000USD credit in Azure.
- Silver Medal in Micro controller programming in 2016 UCP Olympic
- 1st position in Micro controller programming in 2016 UOL ECL
- Gold Medal in Micro controller programming in 2015 UCP Olympic.