(+49 176) 2947-5690
Tubingen, Germany
fwahhab89@gmail.com

Faiz Ul Wahab
Senior Deep Learning Engineer

Portfolio: github.com/faizwhb
linkedin.com/in/faizw

I am looking for an engineering position that provides an opportunity for product-focused research in Core Computer Vision like visual recommedation systems, tracking, video analysis and AR/VR.

TECHNICAL EXPERIENCE

Senior Deep Learning Engineer   09/2021 — **Present**
Vyking GmbH   *Berlin, Germany*
- Advanced the Multi-task Framework with Real Time Object Detection and Segmentation(+7/+10 Points improvement)
- Setup Configuration Systems for Quick Prototyping, Tracking and Versioning of Deep Learning Models and Datasets
- Established Performance/Latency Metrics to Assess the Detection and Tracking Performance in virtual try-on applications
- Prototype Human Body Shape and Pose Algorithm + System for Extension of our Virtual Try-On Solutions

Deep Learning Engineer   04/2017 — 08/2021
Nyris GmbH   *Berlin, Germany*
- Visual Search Evaluation: Developed Quality/Latency Metrics for Image Search Engine
- Embeddings Search: Research and Prototype Metric Learning and Self Supervision Algorithms for improving visual search
- Object Detection: Developed a real time object detection algorithm, boosted by saliency to find objects of interest in user submitted images.
- Scene Text Recognition: Developed a prototype + production pipeline that identifies text in the image that can read product labels/descriptions, to improve search quality

Computer Vision Software Engineer   07/2013 — 06/ 2014
TechArete   *Islamabad, Pakistan*
- Developed a Video Copy Detection System that tracks advertisements on TV. This pipeline consisted of image-level feature extraction, followed by codebook creation for feature indexing and video-level voting schemes.

Research Intern   01/2021 - 07/2012
Image Understanding and Pattern Recognition Group   *Kaiserslautern, Germany*
- Develop denoising algorithms for character extraction and semantic contour detection in cadastral maps
- Research on discriminative learning approaches for text detection

EDUCATION

Master in Intelligent Adaptive Systems   2018
University of Hamburg
- **Major Coursework:** Computer Vision, Machine Learning, Deep Learning
- **Thesis:** *Interpretation of Neural Networks for Eye Fixation Prediction*

Bachelor in Computer Science   2013
Lahore University of Management Sciences
- **Major Coursework:** Digital Image Processing, Computer Vision, Computer Graphics

PUBLICATIONS

[1] Chennuru Vankadara, L., Haghiri, S., **Wahab, F.**, Lohaus, M, Luxburg, U., *Insights into Ordinal Embedding Algorithms: A systematic evaluation.*, *arXiv:1912.01666v3*, **Submitted** in the Journal of Machine Learning Research (**JMLR 2021**).

[2] *Sultanpete Govindappa, K., * **Wahab, F.**, *Hesse, L., *Delf Attention Pooled Features*, in the International Computer Vision Summer School (**ICVSS 2019**).

[3] Wieser, I., Toprak, S., Grenzing, A., Hinz, T., Auddy, S., Karaoguz, E.C., Chandran, A., Remmels, M., El Shinawi, A., Josifovski, J., Chennuru Vankadara, L., **Wahab, F.**, Mollaalizadeh Bahnemiri, A., Sahu, D., Heinrich, S., Navarro-Guerrero, N., Strahl, E., Twiefel, J., Wermter, S.: *A Robotic Home Assistant with Memory Aid Functionality*, 39th German Conference on Artificial Intelligence (**KI 2016**).

SKILLS

Tools and Languages	Git, Tensorflow, PyTorch, TFLite, CoreML
Research Area	Computer Vision, Real Time Neural Networks, Knowledge Distillation, Object Tracking
Communication	English, Urdu, Hindi

AWARDS

DAAD Scholarship: Awarded DAAD Scholarship for attending TU Kaiserslautern as a Research Intern	2012
High Achievers Award: Awarded a 75 % Scholarship for Attending High School	2007-09