




Muhammad Aamir


Date of birth: 04/08/1994

Nationality: Pakistani

Gender: Male

CONTACT

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ABOUT ME

I am pursuing my Masters in Computational Engineering at University of Erlangen Nuremberg Germany with the focus in the Deep Learning domain. Beside studies, I am working in Siemens Healthineers AG in the field of Image processing, specializing in particular on developing deep learning techniques for inverse problems in low-level computer vision.

WORK EXPERIENCE

04/01/2021 – CURRENT – Erlangen, Germany

Working Student (Data scientist)

Siemens Healthineers

- I am working in the field of Image Processing, Specializing in particular on deep learning based methods (with focus on Convolutional Neural Networks) for inverse problems in low level Computer Vision.
- I mainly investigate the comparison of traditionally model based denoising methods and deep learning-based methods for flexible, effective, efficient and interpretable image restoration.

23/03/2020 – 31/10/2020 – Erlangen, Germany

Working Student (Data Analyst)

Siemens Healthineers

- Data pre-processing, Data Wrangling, Data Analysis on Medical Dicom Images including CT Scans, X-rays.
- Selection & Evaluation of different AI Algorithms to perform standard qualitative and quantitative measurements evaluation
- Validation by benchmarking ground truth of existing data/reports

EDUCATION AND TRAINING

01/10/2019 – CURRENT – Schloßplatz 4, 91054 Erlangen, Erlangen, Germany

MSc. Computational Engineering (In process)

University of Erlangen-Nuremberg (Friedrich-Alexander-Universität)

<https://www.fau.de/>

01/09/2015 – 01/08/2019 – 13 National Stadium Rd, Karsaz Faisal Cantonment, Karachi City, Sindh, Pakistan, Karachi, Pakistan

Bachelor of Computer Science

Bahria University Karachi Pakistan

<https://www.bahria.edu.pk/>

DIGITAL SKILLS

My Digital Skills

programming (C++, Python, C#) / Framework : Pytorch, Tensorflow / Visual Studio, Anaconda platform, Jupyter Notebook / Databases : SQL Server, Oracle 12C / MS Office (MS Word, MS Excel and MS Powerpoint) / Matlab

PROJECTS

01/08/2018 – 31/03/2019

Classification of Musculoskeletal Radiographs Using Convolutional Neural Networks (CNN's)

- Worked on the dataset of about 40,000 images provided by the Stanford University Hospital.

- Developed an intelligent system based on convolutional neural network which detect bone abnormality by examining x-ray images.

01/09/2017 – 01/03/2018

Driving License Management System , OLTP & DWH (Oracle 12C , C#)

- GUI development for Driving License Management System
- Use of MS PowerPoint for Presentation and MS Excel for Structuring data in a Normalized Form

HONOURS AND AWARDS

01/04/2018

Monetary Merit Scholarship Award Holder – Bahria University Karachi Pakistan

04/10/2021

Completion of Deep Learning Exercises with 100% Unit Test Coverage – University of Erlangen-Nuremberg (Friedrich-Alexander-Universität)

- Completed the Deep learning coursework exercises based on the core deep learning methods including CNN's, RNN and the understanding of Pytorch framework

https://gitlab.cs.fau.de/py53gufo/awards-and-certifications/-/blob/main/Aamir_Muhammad_Certificate_DL_.pdf

01/05/2019

What is Data Science – IBM

<https://www.coursera.org/account/accomplishments/verify/WFSA5MRAWFVF>

11/05/2019

Data Science Ethics – University of Michigan

https://gitlab.cs.fau.de/py53gufo/awards-and-certifications/-/blob/main/Data_Ethics_Certificate.pdf

06/09/2017

Introduction to Data Storage and Management Technologies – IEEE

https://gitlab.cs.fau.de/py53gufo/awards-and-certifications/-/blob/main/IEEE_Certificate.pdf

COMMUNICATION AND INTERPERSONAL SKILLS

The International English Language Testing System (IELTS)

Overall Test Score 6.5 with CEFR Level B2

https://gitlab.cs.fau.de/py53gufo/awards-and-certifications/-/blob/main/IELTS_CERTIFICATION.pdf

LANGUAGE SKILLS

MOTHER TONGUE(S): Urdu

OTHER LANGUAGE(S):

English

Listening
B2

Reading
B1

Spoken production
B2

Spoken interaction
B2

Writing
B2

German

Listening
A1

Reading
A2

Spoken production
A2

Spoken interaction
A1

Writing
A2