Nadeem Shah

Medical Engineer

As an AI enthusiast with an engineering background and 2 years of R&D experience in the medical device industry, my passion for transforming the healthcare system led me to pursue a specialization in 'AI in Image & Signal Processing' for my master's degree. I have competent skills in Python (1.0 grade in a university course) and relevant experience with MATLAB, complemented by completion of the Machine Learning course at my university and enrolment in the Andrew Ng ML Specialization on Coursera.

nadeemhusainshah@gmail.com

+4915753278448

Umfassungsstraße 55, 39124
Magdeburg, Germany

14 June, 1994

linkedin.com/in/EngrNadeemShah

EDUCATION

MSc Medical Systems Engineering
Otto von Guericke University, Magdeburg

04/2022 - Present *German Grade: 1,8*

Deepenings

- AI in Image and Signal Processing
- **Research Track -> Project (15 CP):** Calculating posture from 2D pressure distributions using AI methods

Bachelor of Engineering in Biomedical
Ziauddin University, Karachi

12/2015 - 12/2019 *German Grade: 1,4*

Achievements

- Got 4th position in the whole batch
- Received a merit-based scholarship of 40%

WORK EXPERIENCE

Biomedical Engineer
Tech4Life Enterprises, Karachi

08/2020 - 03/2022 *Hardware and Innovation Dept.*

It is an innovative research and design company, specialized in telemedicine and point-of-care devices

Major Duties

- Design, develop, test and modify hardware products
- Design & develop a software framework for hardware devices on Arduino in collaboration with the software team

Trainee Biomedical Engineer
Jinnah Medical College Hospital, Karachi

01/2020 - 07/2020 *Dept. of Biomedical Engineering*

Solved several complaints by troubleshooting and repairing medical devices

MOOCS

Machine Learning Specialization (10/2022 - Present)
Coursera

Computer Vision Basics (11/2020 - 12/2020)
Coursera

AI For Everyone (05/2020 - 06/2020)
Coursera

DIGITAL SKILLS

Python	●●●●○
MATLAB	●●●○○
C++	●●○○○
Arduino	●●●●○
AutoCAD | Adobe Illustrator	●●○○○
Autodesk Eagle PCB Designing	●●○○○
Microsoft Office	●●●●●

ACADEMIC PROJECTS

Final Year Project
- Designed a MyoGenu box and MyoGenu app that classifies healthy and unhealthy muscles of the knee using a machine learning algorithm

Line Follower Robot

Baby Incubator

Variable DC Power Supply

Automatic Water Level Detector & Water Pump Controller

PUBLICATIONS

Design and Development of Human Knee Joint Muscle(s) Classification System using Machine Learning

I am the first author of this research paper. It was accepted by the Pakistan Engineering Council and published in the first volume of their journal "Pakistan Journal of Engineering"