S M Afzal Hashmi

syedafzal059@gmail.com | 9717396869 | Linkdin:SyedAfzal

EDUCATION

IIT DELHI
MS in Signal Processing
Grad: May 2023 | Delhi,India

NIET
B.tech in Electronics & Communication Engineering
Grad: May 2017 | Noida, UP
Percentage: 80%

COURSEWORK

MS(R)
• Introduction to Machine Learning
• Sensor Array Signal Processing
• Convex Optimization
• Advance Signal Processing
• Basics of Information Theory

ONLINE COURSES

COURSERA
• Introduction to Computer Vision & Image Processing
• Mathematics for Machine Learning
UDEMY
• TensorFlow Developer Cert. in 2022: Zero to Mastery
• Complete Machine Learning Data Science Bootcamp
• QMS Foundation level training certificate

SKILLS

PROGRAMMING
Language:
• Python • C • Embedded C
• SQL • Matlab • LaTeX
Tools:
• Azure MLOps • Anaconda
• Google Colab • Jupyter
• Visual Studio • PyCharm
• GitHub • Bitbucket
• Label Studio
ML Python Libraries:
• PyTorch • Tensorflow • Keras
• Scikit-learn • NumPy
• OpenCV • SciPy • OCRs
• Pandas • Matplotlib
OS:
• Linux • Windows

EXPERIENCE

ASCENDUM SOLUTIONS INDIA | Senior Data Scientist
May 2023 - Present | Gurugram, India
• Implemented multiple **GAN-based ML Research Papers** for **Text Denoising**
• Utilized **LayoutLM** and **BERT** models for tasks related to **Document AI**
• Worked with multiple open-source **OCR** libraries for **Text Extraction**
• Developed models for attachment **Classification** and **Skew Correction**

IIT DELHI | Senior Research Fellow(SRF)
Aug 2018 - April 2023 | Delhi, India
• Contributed to **India's Indigenous 5G test-bed (DoT)** by developing multiple applications and devices utilizing **5G mMTC(NB-IoT)** technology.
• Develop a 5G(mMTC) compatible Low-cost Air pollution Monitoring System capable of forecasting PM levels using Machine Learning.
• Spearheaded the design of a comprehensive **workbench for 5G mMTC (NB-IoT)** technology, providing hands-on training opportunities for over **200 researchers and students across India**. Organized multiple workshops to demonstrate the potential of the technology.

RESEARCH

AI POWERED ELECTRONIC STETHOSCOPE | Python | Embedded C | Hardware | Machine Learning
Bharti School, IIT Delhi| Researcher|Dec 2020 – Present | Delhi, India
Worked with **Prof Monika Aggarwal** to Design And Developed a Multichannel Electronic Stethoscope for Auscultation & Telemedicine use.

RADIO MAP PREDICTION MODEL | Python | Machine Learning
CARE, IIT Delhi| Researcher|Dec 2022 – Feb 2023 | Delhi, India
Successfully submitted our **UNet3+** based ML model in 2023 **IEEE ICASSP** "PATH-LOSS RADIO MAP PREDICTION" challenge

PROJECTS

AI/ML AND DATA SCIENCE PROJECTS | Python | Machine Learning
• Developed a machine learning program to detect multiple **Respiratory Diseases** on the basis of Heart and Lung Sounds(2023)
• Developed a ML model for **face detection** using a webcam (2022)
• Built a machine learning model for **Diseaster Detection from Tweets** using Natural Language Processing**(NLP)**(2022)
• Created a machine learning project, **BitPredict**, for predicting Bitcoin prices using **Time Series Forecasting**(2021)

WORKSHOPS/POR/ACHIEVEMENTS

• Successful Conducted multiple **NBIoT workshop** at IIT, Delhi(2023)
• Technology Showcase with societal impact in Healthcare at IITD R&D Fair **IInvenTiv** at IIT, Delhi(2022)
• Product Demonstration at **Indian Mobile Congress**, New Delhi (2019-22)
• Successful Device Testing and collaboration with **Jio India** at Jio Park, Mumbai(2020) and **Airtel India** at Manesar, Gurgram(2020)