




MUHAMMAD BILAL

AI Architect

 [bilalibniqbal.github.io](https://github.com/bilalibniqbal)

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 Pakistan  Attock City, Punjab

EXPERIENCE

Senior AI Architect (Team Lead)

DataPoint Pvt. Ltd.

Islamabad

August 2022 – Present

Senior Machine Learning Engineer

DataPoint Pvt. Ltd.

Islamabad

February 2020 – August 2022

Machine Learning Engineer

Infinity Innovations Inc.

Islamabad

January 2018 – June 2020

Founder | Chief Scientist

Bilal Labs

Islamabad

October 2017 – Present

- A research-driven company at the forefront of AI technology, delivering innovative solutions in healthcare, finance, robotics, and autonomous systems with a strong commitment to responsible and ethical practices.

EDUCATION

COMSATS University Islamabad, Pakistan

Master of Science in Computer Science - MS(CS)

Attock Campus

September 2018 – January 2021

- CGPA: 3.42/4.0

COMSATS University Islamabad (Formerly CIIT), Pakistan

Bachelor of Science in Software Engineering - BS(SE)

Attock Campus

January 2014 – January 2018

- CGPA: 2.95/4.0

CERTIFICATIONS

Deep Learning Specialization

DeepLearning.AI

June 2023

Generative Adversarial Networks (GANs) Specialization

DeepLearning.AI

June 2023

Mathematics for Machine Learning and Data Science Specialization

DeepLearning.AI

June 2023

Machine Learning Engineering for Production (MLOps) Specialization

DeepLearning.AI

June 2023

Practical Data Science on the AWS Cloud (PDS) Specialization

DeepLearning.AI

June 2023

PUBLICATIONS

A Transfer Learning-Based Efficient Spatiotemporal Human Action Recognition Framework for Long and Overlapping Action Classes

February, 2022

Springer Nature: *The Journal of Supercomputing*, vol. 78, issue: 2, pp. 2873-2908

Muhammad Bilal, Muazzam Maqsood, Sadaf Yasmin, Najam Ul Hasan & Seungmin Rho - [DOI](#)



An Activity Recognition Framework for Overlapping Activities using Transfer Learning

December, 2020

IEEE Computer Society: *2020 International Conference on Computational Science and Computational Intelligence (CSCI)* pp. 701-705

Muhammad Bilal, Muazzam Maqsood, Irfan Mehmood, Mubashir Javaid & Seungmin Rho - [DOI](#)

VOLUNTEERING

Peer Reviewer for *The Journal of Supercomputing*, Springer Nature —  ORCID  Web of Science . 2022

SKILLS

Languages: Python, C++ , Swift
Libraries: PyTorch, TensorFlow, OpenCV, SciKit-Learn, NumPy, Pandas, Matplotlib
Developer Tools: VSCode, Jupyter Lab, PyCharm, Google Colab, XCode(iOS app development), Linux
Web: NEXT.JS, React.JS, TypeScript, JavaScript, Tailwind CSS, Bootstrap, Material UI, MongoDB, SQL, Django

PROJECTS

Airloop
Android and iOS App

June 2020 – Present

· AirLoop offers the world’s largest road dataset, enabling accurate identification and mapping of road cracks, providing clients with geographically mapped pavement condition data and additional features to make informed decisions, prolong road lifespan, prevent costly rebuilds, and facilitate smart development and revenue planning through their innovative technology platform.

TollSense
Android and iOS App

2018

· Automatic Toll Tax Calculation with Vehicle Type and License Plate Recognition System using Deep Learning

MetriX
Android and iOS App

2018

· Automatic Electric Meter Reading System using Deep Learning

Algorithms Encyclopedia
Android and iOS App

2018

· A mobile application for android and iOS platforms that serves as an encyclopedia of algorithms. These apps provide the details of data structure algorithms, their time complexities, pseudocode, java code with examples, and also provides searching and bookmark capabilities. The android app was developed using Android Studio and Java programming. The iOS app was developed in XCode IDE and Swift programming language.

LANGUAGES

Urdu	Native
English	Proficient
Punjabi	Mother Tongue

REFERENCES

Dr. Muazzam Maqsood
Assistant Professor
✉ muazzam.maqsood@cuiatk.edu.pk

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Dr. Muhammad Tahir
Assistant Professor
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