# Muhammad Bilal

AI Solutions Architect a bilalibniqbal.github.io

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Pakistan ♥ Attock City, Punjab

#### **EXPERIENCE**

Sr. AI Solutions Architect (Team Lead)

Islamabad

August 2022 - Present DataPoint Pvt. Ltd.

Sr, Machine Learning Engineer **Islamabad** 

DataPoint Pvt. Ltd. January 2020 - July 2022

**Machine Learning Engineer** Islamabad

Infinity Innovations Inc. November 2017 - December 2019

Founder | Chief Scientist **Islamabad** Bilal Labs 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** 

**Attock Campus** 

Master of Science in Computer Science - MS(CS) September 2018 – January 2021

• CGPA: 3.42/4.0

COMSATS University Islamabad (Formerly CIIT), Pakistan

**Attock Campus** 

Bachelor of Science in Software Engineering - BS(SE)

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

# **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

# PEER REVIEWER

**The Journal of Supercomputing, Springer Nature IEEE ACCESS**, IEEE 

ORCiD Web of Science

#### **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 June 2020 – Present

Android and iOS App

· 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 2018

Android and iOS App

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

MetriX 2018

Android and iOS App

· Automatic Electric Meter Reading System using Deep Learning

# **Algorithms Encyclopedia**

2018

Android and iOS App

· 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 Nativ
English
Punjabi

#### REFERENCES

### Dr. Muazzam Maqsood

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muazzam.maqsood@cuiatk.edu.pk

## Dr. Muhammad Tahir

Assistant Professor Department of Computer Science, COMSATS University Islamabad, Attock

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