MUHAMMAD BILAL

AI Architect

🌐 bilalibniqbal.github.io

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🏴 Pakistan 📍 Attock City, Punjab

EXPERIENCE

Senior AI Architect (Team Lead)   **Islamabad**
DataPoint Pvt. Ltd.   *August 2022 – Present*

Senior Machine Learning Engineer   **Islamabad**
DataPoint Pvt. Ltd.   *June 2020 – August 2022*

Deep Learning Researcher   **Islamabad**
Infinity Innovations Inc.   *January 2018 – June 2020*

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*

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* — ⓘD 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

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 . . . . *Native*
English . . . . *Proficient*
Punjabi . . . . *Mother Tongue*

REFERENCES

Dr. Muazzam Maqsood
Assistant Professor   *Department of Computer Science, COMSATS University Islamabad, Attock*
✉ muazzam.maqsood@cuiatk.edu.pk

Dr. Muhammad Tahir
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