HASAN IQBAL

Data Scientist | Linux Expert | Bioinformatics Enthusiast

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EDUCATION

MS. in Natural Language Processing
Mohamed bin Zayed University of Artificial Intelligence (MBZUAI)

📅 Sept. 2023 – ongoing   📍 Masdar City, Abu Dhabi, UAE

CGPA: 3.7 | Supervisor: Prof. Preslav Nakov

MS. in Data Science
National University of Sciences & Technology (NUST)

📅 Sept. 2021 – Aug. 2023   📍 Islamabad, Pakistan

CGPA: 3.61 | Supervisor: Dr. Bilal Ali Rizwi

B.Sc. in Electrical Engineering
University of Engineering & Technology (UET)

📅 Sep. 2016 – Aug. 2020   📍 Lahore, Pakistan

CPGA: 3.687 | Supervisor: Dr. Bilal Wajid

PROFESSIONAL EXPERIENCE

Lead Data Engineer and Client Relationship Manager
GoPythonSoftware LLC. | Client: Prognos Health Inc.

📅 July 2021 – Ongoing (∼3 year)   📍 New Jersey, USA (Remote)

- Key Projects: Python based Automated platform for storing and book-keeping data artifacts, Golang based Admission System for receiving data from providers
- Architected and led the development of an SFTP-based admissions system, enhancing data storage, processing, and management. This effort significantly improved the efficiency and effectiveness of data handling processes.
- Spearheaded the creation of an automated platform for storing and managing organization wide data artifacts. Later appointed other skilled lead for ongoing system maintenance and enhancement.
- Manage and foster relationships with client, focusing on understanding their specific needs and aligning our services accordingly.
- Ensuring client satisfaction and building trust through regular communication and outstanding service.
- Skills: Golang, Python, Scala, Terraform, Bash, CI/CD, AWS

Lead Analyst Developer
GoPythonSoftware LLC. | Client: Instant Labs Inc.

📅 July 2020 – Jun 2021 (∼1 year)   📍 New Jersey, USA (Remote)

- Key Project: Google Blockly-based ETL system for the shopping industry
- Led the design and implementation of a Google Blockly-based ETL system for Instant Labs Inc., streamlining data management processes in the retail sector and meeting specific client needs.
- Skills: Golang, Google Blockly, React.js, Python

ABOUT ME

As an accomplished senior developer, I bring nearly four years of expertise in creating robust and streamlined software solutions. My ability to rapidly comprehend and navigate complex systems has consistently accelerated productivity. Dedicated to excellence, I ensure the delivery of superior quality code, significantly contributing to project achievements. Driven by a strong self-motivation, I am committed to excelling in every endeavor.

RESEARCH INTERESTS

- Multimodal Bioinformatics, Genomic Data Mining, Disease Prediction, Healthcare Records and Clinical Decision Support
- Bias Detection, Ethical NLP Frameworks and Inclusive Models
- Sentiment Manipulation Analysis, News Verification and Source Credibility
- Linux and Operating Systems

RESEARCH EXPERIENCE

Research Associate
Sabz Qalam - Pakistan's Premier Data Science Research Institute

📅 Aug 2018 – 2021   📍 Lahore, Pakistan

- Researched and developed Linux based support packages for Bioinformatics i.e. Metabolomics, Bio-imaging (MRI), Genomics and Metagenomics

SKILLS

Programming Languages

`Golang` `Python` `Scala` `C/C++` `Bash` `SQL` `NoSQL` `Terraform`

Cloud

`AWS` `GCP` `Azure` `Docker` `CI/CD` `Infrastructure as Code`

Data Science

`Natural Language Processing` `Deep Learning` `Computer Vision` `SQL and NoSQL Databases` `Data Mining` `Data Visualization` `Machine Learning`

PUBLICATIONS

📗 Books

- B. Wajid, **H. Iqbal**, and M. Jamil, *Linux programming for the faint of heart*. 2020.

📄 Journal Articles

- B. Wajid, M. Jamil, and **H. Iqbal**, "Axonica: A support package for mri based neuroimaging," *Authorea Preprints*, 2023.

- D. B. Wajid, **H. Iqbal**, M. Jamil, and A. Anwar, "Survey of linux based free software tools for remote learning of electrical and computer engineering in a post covid-19 era," *Available at SSRN 4626716*, 2023.

- **H. Iqbal**, M. Umair, S. A. Rizvi, and M. A. Cheema, "A correlation study of covid-19 in europe considering different vaccines, age groups and variants including delta and omicron," *BioMed*, vol. 2, no. 2, pp. 133–169, 2022.

- B. Wajid, **H. Iqbal**, M. Jamil, H. Rafique, and F. Anwar, "Metumpx—a metabolomics support package for untargeted mass spectrometry," *Bioinformatics*, vol. 36, no. 5, pp. 1647–1648, 2020.

👥 Conference Proceedings

- F. Arsalan, F. Anwar, M. Jamil, *et al.*, "Linux support packages for bioinformatics," in *International Conference Punjab University (ICPU 2019) - Recent Innovations in Molecular Sciences*, Nov. 2019.

CO-CURRICULAR EXPERIENCE

General Secretary
IEEE, Student Branch, UET, Lahore, PK

🗓 Oct. 2016 - July 2020

- Led several national and international collaborations and organized several society events as the technical advisor