

# RESUME



## **IHTISHAM ALI, PhD**

**HEC Approved Supervisor**

### **MAILING ADDRESS:**

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## **PERSONAL PROFILE**

A computer and information technology researcher with experience in industrial research and academic work environments, interested in conducting research and scholarly work in artificial intelligence.

## **RESEARCH INTEREST**

- Data Science and Artificial Intelligence Applications development for Smart Agriculture
- To conduct researches on the economic and environmental feasibility of the precision farming technology to be accepted and adopted by farmers.

## **EDUCATION AND QUALIFICATION**

<b>Ph.D. (Distributed Systems)</b> <b>Ph.D. Thesis Title:</b> Modeling and algorithmic decomposition of the mobile workflow graph in distributed systems.	1 <sup>st</sup> Division	Department of Informatics, Gyeongsang National University, South Korea.
<b>MS (Information Technology)</b> (2009/2012) <b>MS Thesis Title:</b> A Reproducibility Framework for Cloud Workflows	1 <sup>st</sup> Division	Institute of Management Sciences, Peshawar, Pakistan.
<b>BS (Information Technology)</b> (2000/2004)	1 <sup>st</sup> Division	IBMS, NWFP Agricultural University, Peshawar, Pakistan.

## **PROFESSIONAL EXPERIENCE (TOTAL EXPERIENCE: 9 YEARS +)**

**Year:** 01/2022 - Present

**Job Title and description:** Assistant Professor IT/Computer Science, Teaching at the

undergraduate and graduate level. Supervising students in the area of data science and artificial intelligence.

**Employer:** Sino-Pak Center for Artificial Intelligence, PAK-Austria Fachhochschule, Institute of Applied Sciences and Technology, Haripur, KPK, Pakistan

**Year:** 07/2020-01/2022

**Job Title and description:** Postdoc Researcher/Principle Engineer, Applications development using AI for decision support in smart agriculture.

**Employer:** Sino-Pak Center for Artificial Intelligence, PAK-Austria Fachhochschule, Institute of Applied Sciences and Technology, Haripur, KPK, Pakistan

**Year:** 09/2013-09/2016

**Job Title and description:** IT Officer, carrying out network management and troubleshooting activities.

**Employer:** FATA Development Program, United Nations International Organization for Migration (IOM), DI Khan, Pakistan

**Year:** 01/2010-02/2012

**Job Title and description:** Lecturer. Carrying out research, teaching at the college level.

**Employer:** Oriental college of commerce and Information Technology, Peshawar, Pakistan

**Year:** 09/2007-09/2008

**Job Title and description:** Lecturer, teaching at the college level

**Employer:** Euro Institute of Management Sciences (EIMS), Peshawar, Pakistan

**Year:** 02/2006-08/2007

**Job Title and description:** Lecturer, teaching at the college level

**Employer:** Al-Karim Public school and college, Charsada, Pakistan

**Year:** 02/2005-06/2006

**Job Title and Description:** ORACLE instructor, teaching oracle developer track 8i/9i

**Employer:** ISOFT Corporation, Peshawar, Pakistan

### **INTERNATIONAL RESEARCH PUBLICATIONS (peer-reviewed)**

1. Kifayat Ullah, Ihtisham Ali. "OLSR-ETX: Parameterize Based Solution for Oscillatory Network", International Journal of Wireless and Mobile Computing, Under Review 2021.
2. Ali, Ihtisham, and Susmit Bagchi. "A Comparative Study and Algorithmic Analysis of Workflow Decomposition in Distributed Systems." International Journal of Grid and High-Performance Computing (IJGHPC) 11.1 (2019): 71-100.

Indexing : ESCIE / Scopus

Impact Factor: 1.75

3. Ali, Ihtisham, and Susmit Bagchi. "Designing Hybrid Graph Model and Algorithmic analysis of workflow decomposition in mobile distributed systems." Future Generation Computer Systems 86 (2018): 145-161.

Indexing : SCI / SCIE / Scopus

Impact Factor: 7.73

4. Ihtisham Ali, Susmit Bagchi. "Algorithmic node classification in AND/OR mobile workflow graph." International Journal of Grid and utility computing, (2019).

Index : ESCIE / Scopus

Impact Factor : 1.89

5. Ihtisham Ali, Susmit Bagchi, "Isolating critical flow path and algorithmic partitioning of the AND/OR Mobile Workflow Graph," Future Generation Computer Systems, (2019).

Indexing : SCI / SCIE /Scopus

Impact Factor: 7.73

### **FUTURE RESEARCH PLANS**

- ML-based applications for effective use of irrigation systems and prediction of daily dew point temperature to identify expected weather phenomena and estimate evapotranspiration and evaporation.
- Farmer's Little Helper (development of specialized chatbots that would be able to converse with farmers and provide them with valuable facts and analytics)
- Machine learning techniques to take field data to analyze crop performance in various climates and new characteristics developed in the process.
- Optimization and control of Hydroponics using IoT technologies.
- Crops disease identification and recommendation system using AI

### **ACHIEVEMENTS/AWARDS**

- ✓ **Ph.D. Scholarship Award (Brain Korea 21, BK21)**, Gyeongsang National University, South Korea. 2016.
- ✓ **Young Pioneer Research Award** (for outstanding research performance from February 2018 to September 2018) Gyeongsang National University.
- ✓ **Young Pioneer Research Award** (for outstanding research performance from September 2018 to February 2019) Gyeongsang National University.

### **SUBJECTS OF INTEREST**

- ✓ Tools and Techniques for Data Science
- ✓ Advanced Database System
- ✓ Computer networks and data communication
- ✓ Operating System
- ✓ Distributed Systems
- ✓ Data Structure and Analysis

### **TRAINING RECEIVED**

- ✓ Artificial Intelligence & Machine Learning in Life Sciences, COMSTECH, Islamabad
- ✓ AI as Practitioner's Tool, Comsats University, Islamabad.

## **REFERENCES**

**1. Dr. Susmit Bagchi**

Senior Professor, Department of Informatics, Gyeongsang National University, Jinju, 660-701, South Korea.

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**2. Dr. Arshad Iqbal**

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**3. Dr. Moazam Ali**

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