Ashfaque Khowaja

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PERSONAL PROFILE

As a passionate and dedicated computer science enthusiast, I am driven by a relentless curiosity to explore the frontiers of technology. With a solid foundation in theoretical concepts and practical applications, I aspire to leverage my expertise to contribute to cutting-edge research and innovation. My commitment to excellence, problem-solving skills, and collaborative spirit makes me a strong candidate for a Ph.D. in computer science.

EDUCATION

➢ PhD in Intelligent Manufacturing and Robotics | Southern University of Science and Technology | Sept 2024 – Continue

➢ Master of Engineering in Computer Science and Technology | Central South University *(985-221)*, China | Sept 2021- June 2024

➢ Bachelor of Engineering in Computer Science and Technology | Guilin University of Electronic Technology, China | Sept 2017 - June 2021

PROJECT AND RESEARCH

➢ Electric Impedance Tomography EIT, designing circuits and doing research | February 2025 - Present

➢ Eye Massager, designing an electronic circuit and testing | October 2024 - Present

➢ Research on Cervical Cancer Classification using deep learning frameworks | September 2021- June 2024 | Masters Research

➢ Worked on prediction of snare protein sequence using machine learning | 2022

➢ COVID-19 chest x-ray classification | 2020-2021

EXPERIENCE

➤ **Microcode | Summer Intern | June 2020 - August 2020**

- Worked on machine learning projects, including data preprocessing, model training, and evaluation,
- Implemented algorithms for tasks such as classification and regression using TensorFlow.

RESEARCH PUBLICATION

- **Khowaja, A**., Zou, B., & Kui, X.Y. Enhancing Cervical Cancer Diagnosis: Integrated Attention-Transformer System with Weakly Supervised Learning. Image and Vision Computing. IF: 4.2. [CCF-C Conference]
- **Khowaja,** A., Zou, B., & Kui, X.Y. CerviNet A Novel Approach for Pap-smear Images Analysis for Cervical Cancer Classification. International Symposium on Bioinformatics Research and Applications (ISBRA). [CCF-C Conference]
- Talpur, D., Ali Raza., **Khowaja, A**., DeepCervixNet: An Advanced Deep Learning Approach for Cervical Cancer Classification in Pap Smear Images. VAWKUM Transactions on Computer Sciences, 2024; 12(1), 136-148.
- **Khowaja, A**., Zou, B., & Kui, X.Y. Cervix Visionator ELM: A Novel Approach to Early Detection of Cervical Cancer. 8th International Conference on Control, Robotics, and Cybernetics (CRC 2023).
- Talpur, D., Shaikh, S., **Khowaja, A**., Adnan, S., & Ghulam, A. (2022). Accurate prediction of snare protein sequence using machine learning. Bioscience Research, 19, 1414–1422.

TOOLS AND SOFTWARES

➤ Python
➤ MATLAB
➤ R language
➤ Power BI
➤ Latex
➤ SQL
➤ Origin
➤ Microsoft Office (Word, Excel, PowerPoint)
➤ KiCad - PCB Designing

ONLINE COURSES AND CERTIFICATION

➤ KiCad Like a Pro | Udemy | 2024
➤ Google Data Analytics | Google | 2022
➤ Machine Learning Specialization | Stanford | 2022
➤ Computer Vision Basics | The State University of New York | 2022
➤ Introduction to Data Science in Python | University of Michigan | 2022

AWARDS & ACHIEVEMENTS

- ➢ Won Guangdong Government Outstanding Student Scholarship | 2024
- ➢ Awarded University Scholarship | 2021-2024
- ➢ First position in 21-day clock in activity | CSU | 2022
- ➢ Outstanding Graduate Award | GUET | 2021
- ➢ Chinese language certificate (HSK level 4) | 2020
- ➢ 2nd position in Dragon Dance competition | 2019
- ➢ International student union | GUET | 2019
- ➢ Merit Partial Tuition Fee Scholarship | GUET | 2018-2021

CERTIFICATES

- ➢ Tsinghua University IEDE Certification | 2023
- ➢ Online summer computer concepts (OSCC) | 2023
- ➢ Mentor in a residential camp | Pakistan | 2023
- ➢ Member of Youth Parliament Pakistan (YPP) | 2022
- ➢ Participation Certificate in vlogging competition | 2019
- ➢ Participation Certificate of Summer Innovation Camp | Beihai | 2018
- ➢ Participation Certificate of National Youth Camp | Pakistan | 2015

SKILLS

Technical
- Technical Reports and Documentation
- Research and Data Analysis
- Data Visualization
- Database Management
- Statistical Analysis

Personal
- Communication
- Teamwork
- Public speaking
- Complaint handling
- Team management
- Adaptability
- Organization

LANGUAGES

- ➢ ENGLISH | Proficient
- ➢ CHINESE | Proficient | HSK 4

➢ URDU | Native
➢ SINDHI | Native
➢ HINDI | Listening & Speaking

INTERESTS & HOBBIES

➢ Sports | Snooker, Table Tennis, Badminton

➢ Volunteering Activities | Helping fellows and teachers to promote mutual growth and friendly surroundings.

➢ Vlogging and Traveling