Shazia Batool

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https://shaziabatool.github.io/

Profile

Graduate of Computer Science with experience in Artificial Intelligence specifically in Machine Learning and Deep Learning modelling, Convolutional Neural Network, Natural Language Processing. Seeking a role to grow and learn from experienced team and faculty members. Received two excellent research awards for having distinguished research topics and amazing presentations at KIEE spring and Fall conferences in South Korea.

Education

- **Doctor of Philosophy Business, Faculty of Law and Business (30.09.2024~Present)**
  - Australian Catholic University (ACU), North Sydney
  - **Research:** Natural Language Processing (NLP), Research focuses on reliability of multimodal LLM in healthcare by enhancing the robustness and factuality dimensions
- **MS Energy Storage. Conversion Engineering (2021~2023)**
  - Jeonbuk National University, Jeonjusi, South Korea | CGPA: 4.0/ 4.0
  - **Research:** Deep Learning, Research focuses on electrical safety mainly by electrical fire identification through CNN models utilizing electrical fire short-circuits marks data
- **BS Computer Science (2015~2020)**
  - BUITEMS, Quetta, Balochistan, Pakistan | CGPA: 3.72/4.0 (Ranked 2nd)
  - **Research:** Machine Learning (ML), Research focuses on sentiment and text analysis to assess patients' feedback with healthcare services by utilizing unstructured patient's feedback, analyzing sentiments using ML, and providing insights to improve healthcare quality

Publications

- "Classification of Short Circuit Marks in Electric Fire Case with Transfer Learning and Fine-Tuning the Convolutional Neural Network Models" in JEET (Journal of Electrical Engineering and Technology)
  - **DOI:** *10.1007/s42835-023-01490-3*
  - **Publication Year:** 2023
- "An Improved CNN VGG19 Architecture for Detection and Classification of Electric Fire Short-Circuit Marks" in INCA (International Society for Next Generation Convergence Technology)
  - **DOI:** *10.33097/JNCTA.2022.06.10.1838*
  - **Publication Year:** 2022
- "Patients Feedback Platform for Quality of Services via 'Free Text Analysis' in Healthcare Industry" in EMITTER International Journal of Engineering Technology
  - **DOI:** *10.24003/emitter.v8i2.502,*
  - **Publication Year:** 2020

Selected Conferences Presentation

- 2023 Korean Institute of Electrical Engineers Fall Academic Conference, Electrical Equipment Division
- 2023 Electric Equipment Division Research Group Joint Workshop and Spring Conference
- 2022 Korean Institute of Electrical Engineers Electrical Equipment Division Autumn Conference and Regular General Assembly
- KIEE Summer Conference, The 53rd Korean Electrical Society Summer Conference
- 2022 Convergence Academic Presentation & Undergraduate Thesis Contest
- International Conference on Next-generation Convergence Technology (INCA) (ICNCT2022)

Selected Certifications

- Machine Learning Classification, Michigan State University, Coursera
- Internet of Things, Cisco, Networking
- Programming for Everybody (Getting Started with Python), University of Michigan, Coursera
- THE HOUR OF CODE, ISSUING AUTHORITY: CODE
- PYTHON, Datacamp
- R COURSE, Datacamp
- LEARN ANDROID APP DEVELOPMENT, Udemy, Online Platform
- Graphic Design, DigiSkills, Training Program
- Digital Marketing, DigiSkills, Training Program
- Cameras, Exposure, and Photography, Michigan State University, Coursera

Selected Training Workshops Attended

- 2024 Saemangeum New Renewable Energy Expo, Date 2024.05.21, **Place:** Gunsan Convention Center, South Korea
- Practical training workshop of renewable energy ICC, Date: 2023.04.27~04.29, **Place:** Gochang, South Korea
- Regional Energy Rollerster Talent Development Winter Joint Workshop, Date: 2023.01.30~01.31, **Place:** Buan Daemyung Resort, South Korea
- 2022 Jeollabukdo Expo New & Renewable Energy 18th Renewable Energy International Forum, Date: 2022.09.28, **Place:** Gunsan Convention Center, South Korea

Skills

- **Programming Languages:** Python, R, Java, C++, C
- **Study Areas:** Natural Language Processing, Machine Learning, Deep Learning, Generative AI, LLM reliability and evaluation, Big data analysis, Electrical safety, Healthcare application safety and reliability, Energy consumption estimations, Energy Storage system.
- **Other Skills:** Academic Research, Leadership, Teamwork, Event Management, Photography, Presentation, Content writing and creating, Archery, Adobe, MS office

Scholarship Honors and Awards

- Best Global SNS Supporter Award: Posting and editing school related material in social media as influencer
- 2024 National University Students Archery Competition held in Wanju-gun, organized by the Korea Archery Federation Received **Award** for Outstanding Team Performance
- **Excellent Paper Award**, 2023 Korean Institute of Electrical Engineers Fall Academic Conference, Electrical Equipment Division, South Korea
- **Excellence Paper Award**, 2023 Electric Equipment Division Research Group Joint Workshop and Spring Conference, South Korea
- The 3rd Electrical Safety, Excellent Thesis Contest, Date: 2022.6.2, Among 4 Finalist out of 188 papers submitted to 53 KIEE summer conference, South Korea
- Merit Scholarship: For Undergraduate Studies at BUITEMS, Pakistan
- BEEF Scholarship: Received from the Provincial Govt for outstanding results in undergraduate studies at BUITEMS, Pakistan
- Prime Minister Laptop: Received for Best Academic Performance
- Certificate of Merit (2nd Position in Department of Computer Science Fall15, BUITEMS, Pakistan)
- Certificate of Appreciation for Coding Competition Event Organizer (IEEE SB BUITEMS, Pakistan) | held successful first coding competition in our campus
- Certificate of Appreciation, DICE Innovation to Industrial Expo. Multan, Pakistan
- Certificate of Participation, Undergraduate Research Colloquium (URC BUITEMS)
- Certificate of Participation, 4th Innovation to Invention, University of Balochistan

Experience

- **Higher Degree Research Candidate**
  - Australian Catholic University, North Sydney
- **Researcher & Teaching Assistant**
  - Jeonbuk National University, South Korea
  - Engaged in research focusing on Deep Learning; Convolutional Neural Networks models for electrical safety.
  - Supported professors in undergraduate instruction by preparing lecture materials, evaluating assignments, and overseeing examinations.
- **Student Member**
  - Australian Computing Society (ACS), Sydney
- **Graduate Student Member**
  - IEEE Gwangju Section, South Korea
- **Volunteer**
  - ACM (Association for Computing Machinery), BUITEMS
- **Event Organizer Coding Competition**
  - IEEE Student Branch BUITEMS
- **Ambassador**
  - IEEEXtreme International Programing Competition
- **Lead Hackathon**
  - NASA International Space App Challenges Quetta
- **Ambassador**
  - IEEE PSYWSC'19, Sukkur IBA University

- **Program Organizer**
  - Promoting SDG8 to Advance Agri-Entrepreneurship Youth (FAO United Nation)
- **Secretary**
  - Women in Engineering (WIE), BUITEMS
- **Teaching Assistant**
  - Faculty of ICT BUITEMS
  - Helped my professors for evaluating assessments and papers
- **Math and Stats Instructor**
  - Part time math and stats tutoring to primary and high-level studies students
- **Guest Speaker| NomadHer Seoul Female Globetrotter Festival, South Korea**
  - Delivered a motivational speech to a globe-trotting attendee with the theme "Solo Female Travel and Academic Life".
  - Addressed about individual experiences and coping mechanisms for dealing with difficulties as a female student travelling alone.
- **Archery**
  - Jeonbuk National University Korean Archery Club Senior Member

Internship

- National Bank of Pakistan (NBP) Regional Office Quetta Cantt Br., Pakistan
- Softnat Software House, Quetta, Pakistan

Languages

- English, Urdu, Persian, Korean

Contact

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