BUSHRAH ZULFIQAR

Contact Information:

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Objective:

Highly motivated and detail-oriented first-year Engineering student at Ghulam Ishaq Khan University of Engineering and Technology, with a strong interest in AI, robotics, and software development. Seeking opportunities to apply my skills in a dynamic and innovative environment.

Education:

Ghulam Ishaq Khan University of Engineering and Technology

Bachelor of Engineering (First Year)

- Expected Graduation: 2027

- Relevant Coursework: Introduction to Programming, C++, Statistics, Calculus, Physics

Technical Skills:

- Programming: Proficient in C++, basic knowledge of Python

- Software and Tools: Experience with SolidWorks, MATLAB, Git

- AI and Machine Learning: Introductory knowledge of TensorFlow

- Hardware: Experience with Arduino-based systems, SEM (Scanning Electron Microscopy), XRD (X-ray Diffraction)

- Instrumentation: Lab experience with fiber optics instrumentation, LiDAR systems

Achievements:

- 2nd Place: Micathon, 2024

- Research Paper: Tech Tales: Use of AI in Children Media Content Generation in Pakistan.

- Conference Attendance: Quantum and AI Symposium 2nd International Conference

- Participant: Lab2 Market competition by AICE 2024

- Hackathon Participation: Engaged in multiple hackathons with notable projects and teamwork

- Expo and Conference Participation: AICE Sino-pak Centre of AI Expo and Conferences, showcasing innovative AI solutions

- Inductee: American Institute of Aeronautics and Astronautics (AIAA) GIK Chapter, participating in aerospace advancements and industry activities

Projects:

- Online Book Management System: Developed a basic system to manage library resources using Python and MySQL.

- Autism-Aid App: Created a preliminary application to assist autistic individuals, focusing on improving communication and daily routines.

- SolidWorks Projects: Designed and modeled various mechanical components and assemblies.

- SMS Spam Detection System: Implemented a system to detect and filter SMS spam using machine learning techniques.

Workshops:

- Python Workshop: Enhanced programming skills and learned best practices for Python development.

- Cloud Computing Workshop: Gained knowledge in cloud infrastructure and services.

- How to Win Kaggle Competitions: Gained insights into competitive data science and machine learning.

- AI and Robotics Workshop: Hands-on experience with building and programming robots.

- Diversity of Mathematics Conference: Attended to explore various mathematical concepts and their applications.

- Electrical Workshops on Circuitry: Attended workshops focused on electrical circuitry and practical applications.

- Lab on Fiber Optics Instrumentation: Acquired practical knowledge in fiber optics systems and their applications.

- LiDAR Systems Workshop: Learned about LiDAR technology and its uses in various fields.

Leadership and Extracurricular Activities:

- Team Lead: Quantum and AI Symposium, managed a team of volunteers and coordinated event logistics.

- Participant: Multiple coding hackathons, demonstrating strong problem-solving and teamwork skills.

- Volunteer: Team Invictus, GIKI team participating in Design/Build/Fly Competitions (DBFC), contributing to aerospace project development and competition participation.

- Member: Women Engineering Society at GIKI, promoting gender diversity and inclusion in engineering fields.

- Volunteer: Ana-Muslim Foundation, involved in donation and community service activities.

Soft Skills:

- Team Collaboration: Proven ability to work effectively in diverse teams.

- Problem-Solving: Strong analytical skills applied to complex technical challenges.

- Communication: Excellent verbal and written communication skills, with experience presenting technical topics.

- Adaptability: Quick learner, able to adapt to new technologies and environments.

Languages:

- English: Fluent

- Urdu: Native

Bushrah Zulfiqar