

HAMNA IFTIKHAR

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Objective

I'm a passionate and goal-oriented individual searching for professional and demanding experience in an organization with a programming, technology, and innovation environment to accelerate my personal and professional growth.

Education

Ghulam Ishaq Khan Institute of Engineering Sciences & Technology (GIKI)	Topi, Pakistan
Bachelors of Science in Artificial Intelligence	September 2020 - Present
Lahore College for Women University (LCWU)	Lahore, Pakistan
Pre-Engineering	September 2018 – May 2020

Work Experience

Association of Computing and Machinery (ACM) October 2021 – Present

The Association for Computing Machinery is a US-based international learned society for computing.

- ❖ **Team Management:** Managed the International ICPC competition for year 2022 by increasing the participants reach resulted in more than 200 participants in that event.
- ❖ **Communication:** Handled social media accounts by scheduling updates, sharing relevant content, engaging with followers, answering to participant's inquiries, and covering society events on social networks.
- ❖ **Organization:** Organized Python workshop for January 2022 by teaching and supervising participants.

American Institute of Aeronautics and Astronautics (AIAA - GIKI Chapter) October 2021 – August 2022

AIAA is the US- based world's largest aerospace technical society. With nearly 30000 individual members from 85 countries.

- ❖ **Creativity:** Lead a few members in poster making by publishing posters and flexes about the event.
- ❖ **Event Management:** Successfully managed the National DBFC event and sold 70+ tickets to participants which resulted in a grand event.
- ❖ **Negotiation:** Coordinated with multiple companies and brands for sponsorship of the above event and successfully managed to get a sponsor of PKR 50,000 from Red Bull.

Academic Projects

Team Projects

I. Plant disease Detection Model

Model tells us whether the crop is early blight or late blight.

- ❖ **Project Lead:** Used Deep Learning model CNN (image detection), Tensorflow and Data Augmentation techniques

II. GIKI online food corner

This project is web based application. Its main objective is to login into the user and get registered in the online food restaurants.

- ❖ **Project Member:** A device independent application features database (MySQL) resides in Xamp local host server and the connection is done through php.

III. Principle Component Analysis on land sat-image

Applied PCA on Land satellite image as a dimension reduction technique of image resolution to check if resolution is same or different in reduced components.

- ❖ **Project Lead:** Performed various tasks on image including error analysis, bands concatenation and visualization and image cropping.

Individual Projects

I. Travel Agency System

Project based on Artificial Intelligence based concepts and python language and its libraries.

Used basic concepts of python, machine learning algorithms and Networkx library for visualization.

II. Tank Shooting Game

By applying advanced concepts of OOP in C++ and graphics library, I have designed this tank shooting game.

Awards & Certifications

- ❖ **Kaggle Competitions:** Have earned top rank on leadership board for several competitions.
- ❖ **Technical Skills & Tools:** Python, SQL (Oracle), HTML/CSS, Git and familiar with JavaScript, C++, C, Verilog.
- ❖ **Certifications:**
 - Python Basic (HackerRank), 2023
 - AI for everyone (Coursera), 2023
 - Neural Networks & Deep learning (Coursera), 2022
 - Machine Learning (AWS), 2022