Farah Zulfiqar

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OBJECTIVE

To work as a bioinformatician on a platform infusing real world experiences that will employ my academic and professional knowledge along with augmenting my interpersonal, management and leadership abilities.

ACADEMIC CREDENTIALS

Institute	Degree	Year	Marks
COMSATS University Islamabad	Bachelor of Science in Bioinformatics	2020 to 2024	CGPA 3.14
Islamabad College for Girls F-6/2, Islamabad	HSSC – Pre-Medical	2019	1st Division
Islamabad College for Girls F-6/2, Islamabad	SSC – Science Group	2017	1st Division

PROFESSIONAL AFILLIATIONS

Organization/ Accreditation Body	Year
Member – IEEE Engineering in Medicine and Biology Society (EMBS)	2022
Member – IEEE Women in Engineering	2022
Member – IEEE Student Member	2022
Member – International Society for Computational Biology & Bioinformatics (ISCBsc)	2023-Present

BACHELOR FINAL YEAR PROJECT

Title	Summary	Tools/ Algorithms
Machine Learning on Next Generation Sequencing (NGS) based exome data *(Project Duration: 6 months)*	This project aims to develop a pipeline using whole exome sequencing to identify genetic variations in a family, focusing on healthcare and disease prediction. It aims to create a comprehensive dataset of human exome sequences, to identify pathogenic genetic variations, and use AI techniques to predict future disease risks.	FastQC, FastP, BWA-MEM, Samtools, VCFtools, BCFtools, ANNOVAR & machine learning (Logistic Regression, Support Vector Machine, Random Forest, XGBoost)

TECHNICAL SKILLS

Languages	Databases	Tools	Platforms	Softwares
Python, R, HTML/CSS, shell scripting	NCBI, Uniport, Ensemble genome browser, EMBL	Expasy, PredictProtein, JPred4, Phyre2, Jmol, Bowtie2, Bwamem, samtools, VCFtools, BCFtools, ANNOVAR	Windows, Linux	Pymol, MEGA11,

COMPUTER SKILLS

Microsoft Office	Statistics	Graphic Designing	Programming
Word, Excel, PowerPoint, Outlook	SPSS	Canva, Adobe Illustrator, Adobe Photoshop	Visual Studio, Jupyter Notebook, Anaconda

SOFT SKILLS

Teamwork	Project Planning and Management
Good Communication Skills, Constructive Conflict Management Skills, Active Listener, Creative Thinker, Respectfulness, Leadership skills	Proficient in Project Planning and Execution, Active Participation in Co-Curricular and Community Activities

WORKSHOPS / EVENTS ORGANIZED

Workshop / Symposiums	Institute	Year
An awareness session on international scholarship and innovative research universities (IRU) Australia - Organizer	COMSATS University Islamabad	2021
Workshop Scientific Research Writing - Organizer	COMSATS University Islamabad	2021
Biological Technohunt'21 - Organizer	COMSATS University Islamabad	2021
Insights of Biosciences and Bioinformatics- Organizer	COMSATS University Islamabad	2021
Cloud Development Bootcamp - Organizer	COMSATS University Islamabad	2021
Video Screening Session - Organizer	COMSATS University Islamabad	2021
Study abroad awareness session on getting higher education in France- Organizer	COMSATS University Islamabad	2022
SAC Leadership Dialogue IEEE - Organizer	COMSATS University Islamabad	2022
Hands-On training workshop on Data Analysis using R language	COMSATS University Islamabad	2022
Webinar on applications of AI in Chemistry and Bioinformatics – Organizer	ISCB RSG-Pakistan	2023
Webinar on Detection of Cancer using AI on NGS Data - Organizer	ISCB RSG-Pakistan	2023
One Day Hands-On workshop on R & Python - Co-trainer	International Islamic University Islamabad	2023

INTEREST

- Machine Learning
- Deep Learning
- NGS Data
- Python Language
- Shell Scripting
- Artificial Intelligence
- Data Science
- Data Analysis

LANGUAGES

- English – Intermediate
- Hindi / Urdu – native language
- Punjabi – mother tongue

REFERENCES / TRANSCRIPT

Available upon request