Sadaf Raza

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EXPERIENCE

Genique Lifesciences   Jan. 2022 – Present
Bioinformatics Analyst I   Gurugram, Haryana, India

- Contributed to developing and maintaining robust and efficient pipelines and databases for the analysis of large-scale genomic data, including whole genome, whole exome, targeted, and microarray data.
- Worked to develop pipelines for pharmacogenomics, carrier screening (including Non-invasive Prenatal Testing), somatic and germline variant analysis, cnv detection, gwas, and genomic analysis in canine and equine species.

Hackbio   Aug. 2021 – Sept. 2021
Bioinformatics Intern   Virtual

- Conducted single-cell RNA sequencing data analysis to study plant root development.
- Reproduced a galaxy tutorial on mutation calling, viral genome reconstruction, and lineage/clade assignment from SARS-CoV-2 sequencing data.
- Led a project on re-analyzing Whole Genome data of Plasmodium falciparum.
- Developed and published bash scripts on GitHub for data analysis and automation.

Indian Council of Medical Research, AIIMS   Mar. 2021 – July. 2021
Research Intern   New Delhi, India

- Identified High Priority variants in Neurofibromatosis Type I disease patients using Whole Exome data.
- Utilized command-line interface (CLI) for data analysis.
- Contributed to research projects on neurofibromatosis and gained hands-on experience in data analysis.

Dept. of Biosciences, Jamia Millia Islamia   Jul. 2018 – Aug. 2018
Summer Trainee   New Delhi,India

- Studied Basic Molecular Techniques for detecting Mutation in Cancer.
- Learnt techniques for DNA Isolation from Blood and Tissue, PCR and Single Strand Conformation Polymorphism (SSCP).

EDUCATION

Jamia Hamdard   2019 – 2021
Master of Technology in Bioinformatics   New Delhi, India

- **Score**: 85.76%

IILM affiliated to AKTU   2015 – 2019
Bachelor of Technology in Biotechnology   Uttar Pradesh, India

- **Score**: 78.8%

Jamia Millia Islamia   2012 – 2014
XIIth   New Delhi, India

- **Score**: 81.00%

St. Paul's High School, CBSE   2012
Xth   Bihar, India

- **Score**: 10 CGPA

SKILLS

Languages : Python, R, Bash scripting
Technical Skills : NGS data analysis(eg.Whole Genome, Whole Exome and Transcriptome analysis), Machine Learning, Data Visualization, Data Curation, Pipeline Development and Bash Scripting.
Soft skills : Time management, Adaptability, Collaboration, Strategic planning, Problem solving

WEBSITE

https://github.com/SadafRaza

CERTIFICATIONS

Bioinformatics for Biologists: Analysing and Interpreting Genomics Datasets
(Future Learn, Wellcome Connecting Science)

Analyzing Genomic Data in R
(Skill Track, Datacamp)

Data Science in Stratified Healthcare and Precision Medicine
(The University of Edinburgh, Coursera)

Bioinformatics for Biologists: An introduction to LINUX, BASH Scripting, and R
(Future Learn, Wellcome Connecting Science)

Whole Genome Sequencing of Bacterial Genomes - Tools and Applications
(DTU - Technical University of Denmark, Coursera)

Drug Development and Drug Discovery
(UC San Diego, Coursera)

The Data Science of Health Informatics
(The Johns Hopkins University, Coursera)

Bioinformatic methods I and II
(University of Toronto, Coursera)

Bioinformatics: Introduction and Methods
(Peking University, Coursera)

ACHIEVEMENTS

- Worked for the project **Development of commercial hydroponics setup for industrial effluent treatment using a phytoremediative crop** which received a grant from CSTUP, Lucknow and also received Project of the Year award at IGNITE Techfest, organized by IILM in 2019.

- Participated in poster presentation on the topic Applications of CRISPR-Cas9 in National Seminar on Emerging Technology in Medical Biotechnology and Healthcare (BIOGENESIS) in 2016.