Muhammad Umar

Bioinformatician at
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Interests

👉 Data science

👉 Machine and deep learning

👉 Data visualization

Skills

Data science

Machine/deep learning ● ● ● ○ ○

Git Conda ● ● ● ● ○

Snakemake ● ● ● ○ ○

Software engineering:

Python ● ● ● ● ○

BASH ● ● ● ○ ○

R ● ● ○ ○ ○

Database development tools:

SQL ● ● ● ● ○

Working Experience

Jan, 2020 – ongoing	**Bioinformatician**	**EEEDAM, Lahore Pakistan**

- Development of semantic method for merging Cheminformatics ontologies with biological ontologies (GO and pathways)
- Keeping the deadlines and delegating tasks to other team members

Jul, 2019 – Sep, 2019	**Research Associate Internship**	**NARC, Islamabad Pakistan**

- Performed analysis of biological data using machine learning and statistical modelling
- Python and R packages development

Education

Sep, 2017 – ongoing	**Bachelor of Science in Bioinformatics**	**GCUF, Pakistan**

Grade: : 3.90/4.0, Highest CGPA in all semesters

Bioinformatics   machine learning

2014 – 2016	**College degree (Intermediate in science)**	**Punjan College, Pakistan**

Obtained Marks: : 957/1100 (87 percent)

2012 – 2014	**High school degree**	

Marks obtained: : 1007/1100, (92 percent)

Open source projects

Machine learning model to predict disease progression

- Applied random forest and linear regression to predict disease factors
- Developed mysql database to store and retrieve data

Retrieving clinical terms from biomedical literature using text mining

- Developed flat file based database of biomedical literature
- Applied MER text mining method to identify clinically important terms from literature database
- Programming language used: Python

Leadership skills

- Strong analytical and problem-solving skills to solve challenging tasks by designing new strategies and approaches
- Excellent communication and writing skills for sharing findings with other colleagues that are lacking technical knowledge
- Believes in self-motivation and inspiring others to organize and conduct a complex task

Github ————

Languages ————

Urdu (Mother Tongue)

English (Fluent)

Honours and Awards

2009 - 2010	Position holder scholarship	GCUF Univ., Pakistan
2018 - 2019	Winner of prime minister laptop competition	Govt. of Punjab, Pakistan
2014 - 2016	Awarded best performance Scholarship	Punjab college, Pakistan

Online certifications

2020 - 2020	Neural Networks and Deep Learning	Coursera
2020 - 2020	Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization	Coursera
2020 - 2020	Exploratory Data Analysis with Seaborn	Coursera

Personal

I am a data analyst with expertise in python programming, machine learning and big data analysis. I have developed skills to independently design and conduct projects with effective applications in daily life. Implemented nearly all the machine learning algorithms using python and currently developing a user friendly shiny application to predict disease genes using functional similarties of genes .