

Tolulope Adeyina

Bioinformatician

El Paso, TX 79912

tadeyina3dyh8_tzo@indeedemail.com

+1 915 803 6621

Innovative and experienced researcher with a proven track record of identifying issues and achieving solutions to increase productivity. I invest my possible best, in other to achieve daring objectives, towards high productivity at designated time, as I increase in Knowledge.

Willing to relocate: Anywhere

Work Experience

Graduate Research Assistant

University of Texas at El Paso - El Paso, TX

May 2020 to Present

- Investigated the patterns of occurrences palindromes in DNA/RNA sequences of viruses.
- Used Python to parse GenBank, Fasta files, and Emboss palindrome outputs.
- Created a pipeline with Python for the generation of data from GenBank , and Emboss Palindrome's website, with an output that is statistically analyzed using R.
- Analyzed Covid_19 data and RNA-seq data using Python.
- Used Pycf to extract and analyze data from VCF files

Graduate Teaching assistant

University of Texas - El paso, ES

August 2019 to Present

Tutor at the Mathematics recourse center for students. Assisting professors in research activities.

Bioinformatics Intern

Texas Tech University Health Sciences Center of El Paso - El Paso, TX

October 2021 to December 2021

- Analyzed RNA- Seq data with information of patient divided into 4 groups which are Type I diabetics, Type II diabetics, idiopathic and Control.
- Identified diseased pathways of both the down regulated and up regulated genes associated with gastro-intestinal diseases using QIAGEN Ingenuity Pathway Analysis (IPA).
- Predicted downstream effect and identified new target/candidate biomarkers using Ingenuity Pathway Analysis (IPA)s.

Research Assitant

University of Ibadan - Ibadan

February 2017 to May 2019

Researched on the Transmission dynamics of Lassa fever, following the persistence of the emergence of the disease in sub-Saharan Africa, thereby using Ordinary differential equation to derive a Mathematical Model, and hypothesizing three varying intervention procedures in a view to alleviate the menace of Lassa fever. Worked with secondary data from Nigeria center for disease control (NCDC).

Country Coordinator

DandH foundation

January 2014 to February 2017

Supervised the research team. Researched the trend of youth decadence and development. Proposed school campaign for more audience and objective accomplishment, the proposal was accepted and the campaign has been launched. The team and I suggested and created a well simplified and interactive curriculum for the training which is proposed to be used in every secondary school in Nigeria.

Education

Ph.D. in Data Science

The University of Texas at El Paso - El Paso, TX

August 2021 to Present

Masters' Degree in Bioinformatics

University of Texas

August 2019 to August 2021

Masters' degree in Statistics

University of Ibadan

January 2016 to May 2019

Skills

- 5 SKILLS
- R programming Data mining
- Python
- Microsoft Office Suite IBM SPSS Statistics
- Bioinformatics tools
- Analytics
- Data Analysis
- Tableau
- Machine Learning
- Regression Analysis

Additional Information

- RELEVANT PROJECTS DONE •
- Developing an inventory database for the university student government association using SQL/MySQL.
- Hierarchical clustering of variance using prostate cancer data (Postgenomics).
- Prediction of GPCR class B2 3D structures using Raptor, identifying the ligands binding to their adhesion using data bases such as GLASS, in predication of binding pockets using P2rank.

- Finding correlation between race, gender, location of correlation cancer, mutation, KRAS mutation and overall survival of patient. •
- Modeled food and housing security survey data using logistic regression and decision tree to find out the sub-population of students who are at risk and the significant prediction of food and housing security.
- Carried out sentimental analysis of tweets and the relationship between the tweets' sentiments and revenues of ten companies and designed an interactive Tableau dashboard for the visualization.