

ANIRUDDHA DAWARE

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EXPERIENCE (4+ years):

Bioinformatics Associate: LifeMine Therapeutics, New York, NY, USA

05/2020 – Present

- Implementing and executing bioinformatics algorithms and pipeline to analyze genomic data.
- Design, develop and deploy cloud-based workflows, web interfaces for data interpretation and visualization.
- Implement and maintain databases for storing and manipulating genomic data.
- Create best data-lifecycle practice procedures, software development and unit testing.

Business and Data Analyst: Gene ID Labs, Montvale, NJ, USA

02/2020 – 04/2020

- Serve as a data expert and perform extensive data validation analysis within large datasets using statistical tools like SAS, SQL, Tableau. Create reports based on data mining, analysis and visualization.
- Used machine learning algorithms to analyze scientific data. Maintain database and perform analysis on it.

Data Analyst: Pina Solutions, Freehold, NJ, USA

06/2019 – 01/2020

- Developed data models to organize, monitor, handle data for different teams across the business.
- Identified key performance indicators (KPIs) and designed key processes with support of operations teams.
- Created and maintained data systems. Revamped the company's online platforms.

Placement and Testing Coordinator: New Jersey Institute of Technology, NJ, USA

03/2018 – 06/2019

- Created a web application using HTML and CSS for maintaining student exams records for placement testing. Coordinated, scheduled and administered placement tests. Maintained the existing test platform.

In – Plant Training Intern: Medibios Laboratories Private Limited, Boisar, India.

05/2016 – 06/2016

- Worked through: Quality Control, Tablet Manufacturing, Capsule Manufacturing and Packaging Department.
- Gained hands-on experience in mills, manufacturing machines, packaging and chromatographic machines.

SKILLS:

- **Programming Languages:** Python, R, Pearl, Biopython, SAS, SQL. Development: HTML, CSS, Tableau, VBA.
- **Operating Systems:** Windows, Linux/Unix. Data Analysis, Data Mining, Machine Learning, Statistical Analysis.
- **Other Skills:** REST, SOAP, JSON, Web Development, Microsoft Office, WordPress, Corel Draw.
- Knowledge of Biostatistics (logistic regression, Poisson regression, Bootstrapping, random matching), computational biology, bioinformatics algorithms, sequence retrieval, alignment and clustering methodologies.

PROJECTS:

RSNA Pneumonia Detection Challenge

- Built an algorithm that detects a visual signal for pneumonia in medical images of patients using convolutional neural networks (CNN) and bounding box principle. It is used to separate multiple areas of predicted pneumonia.

Machine Learning from Disaster (Titanic Model)

- Built a kernel that could predict the survival of each passenger based on several parameters of analysis using neural networks and machine learning techniques and give the accuracy of each passengers predicted correctly.

Advanced Regression Techniques in Estimation of House Prices

- Developed a kernel that predicts the sale price of houses using gradient boosting and root mean square error.

Prediction Model for GWAS Dataset

- Developed the nearest mean classifier that takes input of simulated GWAS (genome-wide association studies) under the logistic regression model and outputs the corresponding labels with elimination of the noisy features, achieved 85% accuracy.

Genome Alignment Programming

- Built a genome alignment program to achieve high-score segment in MAF (Mutation Annotation Format) in Perl.
- Performed hashing of genome with a set of seed(s) and, acquire the hits in MAF format to compare their accuracy to get the best seeds.

Extraction of Protein Sequences

- Designed a model that extracts DNA nucleotides from a data set via a URL, converts data into RNA sequence and gets the protein sequence as the output using Python.

TMDB Box Office Prediction

- Used data analytics technique to develop a Keras model using R, in which the model could parse through the metadata of over 7000 movies with various parameter and predict their overall worldwide box office revenue.

VBA Development

- Created user-defined functions and automation using VBA to build a script based on needs. Planted the software with user preferences and performed routine analysis, including data mapping and updating the DB.

EDUCATION:

New Jersey Institute of Technology, Newark, NJ, USA.

GPA:3.65/4.00

MS, Bioinformatics, Graduated: December 2019.

Mumbai Educational Trust Institute of Pharmacy, Mumbai, India.

GPA:6.80/10.00

Bachelor of Pharmacy, Graduated: August 2017.