GURUMOORTHY. C

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GitHub | **Portfolio | Linkedin |**

SUMMARY

- Bioinformatics graduate with a strong background in statistical data analysis, capable of handling large datasets and effectively communicating complex findings.
- Experienced in various bioinformatics tools, data analysis techniques, and programming languages including Python and R.

EDUCATION

Master of Science, Bioinformatics
Bharathiar University | CGPA: 8.13
Graduation Date: May 2024

Bachelor of Science, Biotechnology
NMSSVN College | CGPA: 7.81
Graduation Date: April 2022

WORK EXPERIENCE

Lab Technician
VSV Lab, Madurai
Duration: September 2019 – August 2022

- Conducted diagnostic tests and analyzed patient samples.
- Maintained laboratory equipment and ensured accuracy in test results.

Medical Record Reviewer
Medico Legal Request, Madurai
Duration: June 2024 – Present

- Examined patient medical records to ensure accuracy, completeness, and compliance with established standards.
- Reviewed clinical notes, lab results, and imaging reports to extract relevant data for clinical decision-making.

TECHNICAL SKILLS

Data Analysis and Visualization: Power BI, Tableau, MS Excel (Power Query, Lookup Functions, Conditional Formatting, Pivot Tables, Charts).
Database Management: PostgreSQL Server (Joins, Sub-queries, Aggregate & Window Functions).

Programming Languages: R (dplyr, ggplot2, phyloseq, tidyr, caret), Python (pandas, NumPy, Matplotlib).
Machine Learning: Scikit-learn (Supervised and Unsupervised Algorithms).
Bioinformatics Expertise: Proficient in NGS analysis, molecular docking, bioinformatics tools, databases, and molecular biology lab techniques.

PROJECTS

E-commerce Sales Analysis

- Analyzed sales data to identify trends and created interactive dashboards for actionable insights.

Website Analytics

- Used SQL to analyze user behavior and optimize website performance.

Tableau Dashboards

- Designed dashboards for business insights, including stock analysis and shipping metrics.

Isolation and Identification of Biosurfactant Organism

- Proficient in biosurfactant production and bioremediation techniques.
- Achieved a 50% reduction in diesel oil-contaminated soil pollution.
- Utilized microbial biotechnology for environmental conservation and sustainable remediation strategies.

Integration and Analysis of Multi-Omics Data for Biomarker Discovery in Breast Cancer

- Conducted comparative methylation and expression analysis of 96 samples (cancer & normal) associated with TNBC using the GEO database.
- Identified 283k differentially expressed genes using R (limma package) and visualized data.
- Highlighted 6 unique genes for TNBC and performed an in-depth literature review.

Bellabeat Fitness Dashboard (Google Data Analytics Capstone)

- Analyzed 940 data points using SQL and Power BI for visualization.
- Found users averaged 7,637 steps/day (5.4 km), falling short of the CDC-recommended 10,000 steps.

INTERNSHIPS & CERTIFICATIONS

- **In-silico Analysis of Protease Inhibitor Domain of Alzheimer's Amyloid Beta Protein** | Bharathiar University
- **Google Data Analytics Professional Certificate** | Coursera
- **Bioinformatics: Algorithms and Applications** | IIT Madras (NPTEL)
- **Soft Skills** | IIT Madras (NPTEL)
- **Biomedical Nanotechnology** | IIT Roorkee (NPTEL)
- **Workshop on Tableau** | Pantech AI
- **Workshop on Power BI** | Pantech AI
- **DNA and RNA Analysis** | University of California San Diego (Coursera)
- **Introduction to Genomic Technologies** | Johns Hopkins University (Coursera)

SKILLS

- Data Wrangling and Statistical Analysis
- Machine Learning
- MS Office Suite (Excel, Word, PowerPoint)
- English Typewriting (50+ words per minute)
- Automation and AI Tools
- Adobe Suite

EXTRACURRICULAR ACTIVITIES

- NSS Volunteer
- Active Member of Science Club