PRABIR SAHA

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OBJECTIVE

Bioinformatician with 2+ years of experience in NGS. To enhance my professional skills, capabilities and knowledge in an organization which recognizes the value of hard work and trust me with responsibilities and challenges.GitHub Prabir - https://github.com/prabirsh

EDUCATION

Master of Bioinformatician, Central University of south Bihar 2019 - 2021
Master of Science in Bioinformatics with major subjects Bioinformatics Fundamentals, Cheminformatics,Biochemistry, Computing Fundamentals, Data Structures, Biostatistics, System Biology, DatabaseManagement Systems, Computer Aided Drug Design(CADD), Programming C, SQL, BIOPERL,Computational Methods for Data Analysis, Modern Biology Experimental Techniques, Genomics and Proteomics.

Bachelor of Biotechnology, MAKAUT University 2016 - 2019
Bachelor of science in Biotechnology is the use of biology to solve problems and make useful products.The most prominent approach used is genetic engineering, which enables scientists to tailor anorganism's DNA at will.

High School, Science stream, Siliguri Barada Kantha Vidhy Pith 2009 - 2016

SKILLS

Technical Skills	Python, R, Perl, C, MySQL, PHPmyadmin, HTML5, CSS, JS, Shell Scripting, Linux/Unix.
Soft Skills	Communication Skills, People Management skills, Analytical and Reasoning ability.
NGS Tools Skills	FASTQC, FASTP, DRAGEN Illumina, control Freec, freebayes, MSI Sensor2, Mosdepth
Database	NCBI, UCSC, EMBL, PDB, SwissProt, Expasy, Ensembl.
Others	Pipeline Design end to end NGS data analysis, AWS, NextFlow.

EXPERIENCE

Clinical Bioinformatician II Apr 2023 - Present
4BaseCare *Bangalore, India*

- Led collaborative teams, optimized workflows, and communicated scientific findings.
- Spearheaded innovative bioinformatics strategies for research direction and insights.
- Enhance NGS infrastructure for efficient and optimal data processing.
- Implemented robust validation frameworks for reliable research outcomes.

Associate Clinical Bioinformatician Nov 2021 - Apr 2023
4BaseCare *Bangalore, India*

- Develop precise analysis pipelines for diverse genomic data types.
- Stay current in genomics advancements; foster team knowledge sharing.
- Enhance NGS infrastructure for efficient and optimal data processing.
- Identify and automate data acquisition to boost accuracy and productivity.

Clinical Bioinformatics Intern Sep 2021 - Nov 2021
4Basecare *Bangalore, India*

- Gained expertise in Basic NGS data analysis during internship.
- Acquired proficiency in various NGS analysis tools.

- Mastered handling large-scale biological data sets effectively.

Dissertation Trainee Jan 2021 - Jul 2021
CUSB *Bihar, India*

- In silico Studies on ornithine decarboxylase to aid treatment of visceral leishmaniasis
- Homology Modelling of the traget (ornithine decarboxylase)
- Perform Docking by the anti-leishmanial plant metabolites.
- MD Simulation of Protein-ligand bind.

PROJECTS

NGS Pipeline Automation. Develop an automated pipeline that retrieves fastq files from the AWS S3 source and seamlessly triggers subsequent processing steps for efficient data handling in NGS.

internal web tools for Allelic Burden Variant Analysis. Set up and manage a dedicated local server infrastructure for generating allelic burden sheets and conducting comprehensive CNV analysis.

CADD. In-Silico studies on inhibition of ornithine Decarboxylase by the plant metabolites!

- Homology model prediction for Ornithine Decarboxylase (ODC).
- Prediction of ODC- plant metabolites interaction through molecular docking.
- Molecular Dynamics Simulation of ODC- plant metabolite complexes.(Check it here)

Minor Project. Comparative analyses of SARS-CoV2 genomes from different geographical locations reveal unique features of host-virus interaction and pathogenesis.

- Mutation analysis to identify unique mutation in the spike surface glycoprotein in the Indian SRAS- COV 2.
- Prediction of antiviral host-miRNAs which might be controlling the viral pathogenesis.

Training Project. Interdisciplinary approach for precision agriculture.

EXTRA-CURRICULAR ACTIVITIES

- Actively write blog posts cohealthierlife and social media posts (linkedin, Facebook)
- volunteering at local community centers, demonstrating leadership and organizational skills.
- Organizing fundraising events for charitable causes, showcasing initiative and teamwork abilities.
- Participating in workshops or seminars related to your field, highlighting continuous learning and professional development.

LEADERSHIP

- Leading project teams to successful outcomes, showcasing strategic planning and decision-making abilities.
- Mentoring and coaching team members, fostering a collaborative and supportive work environment.
- Representing the team or organization in meetings or events, demonstrating effective communication and negotiation skills.