Samanwoy Mukhopadhyay

Bioinformatics Scientist

Contact

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my website

my github

Skills

Omics Data Analysis 10+ years

R, RStudio, Linux 10+ yrs.

Python, Bash, SQL, Git, JIRA, Confluence 4+ yrs.

Rmarkdown,Jupyter, Quarto, Shiny 5+ yrs.

Education

2021

Ph.D. in Biotechnology

University of Calcutta

Thesis: Host Transcriptome Response in Septic Shock

Summary

I am a results-driven Bioinformatics Scientist with expertise in data analysis, quality assessment, and visualization, enabling me to provide critical insights that drive research and development. My experience includes direct client management from project planning through execution, identifying up-sell opportunities. I excel in transforming complex datasets into actionable insights, driving advancements in biomedical sciences and supporting targeted therapy development. Please refer to my website for my detailed CV and Publications.

Experience

Bioinformatics Scientist **2021 - Present**
Elucidata

Over the past 4 years in the industry, I have managed multiple client projects, primarily for pharmaceutical companies. As a technical subject matter expert in bioinformatics analysis, visualization, and insight generation, I have played a pivotal role in delivering high-quality insights. I handled projects ranging from oncology, analyzing tumor microenvironments and drug efficacy, to COVID-19 research, gene biomarker discovery, pathway enrichment, and survival analysis. Collaborating with various team members, I provided key insights that helped clients achieve their goals faster, significantly reducing time and costs. Additionally, I have interviewed and recruited individuals for various roles, fulfilling staffing needs multiple times.

Senior Research Fellow(PhD) **2016 - 2020**
National Institute of Biomedical Genomics

As a senior research fellow, I led investigations into diverse bacterial infections, focusing on host responses in sepsis, viral cancers, and COVID-19 using advanced transcriptomic technologies. I mentored junior researchers, organized academic conferences, and promoted scientific collaboration, enhancing knowledge exchange and professional growth in the field.

Junior Research Fellow(PhD) **2013 - 2015**
National Institute of Biomedical Genomics

As the first student under my supervisor, I gained hands-on experience in setting up a new lab, conducting a wide range of wet lab and dry lab experiments. My focus was on collecting clinical samples, generating transcriptome data for my PhD project, optimizing protocols, and managing grant writing and various documents for sample collection. These experiences significantly enhanced my expertise in clinical research methodologies.

Projects

See my website for a comprehensive list projects handled by me over the years. Mentioning a few Impactful Project here.

- **Microbiome and Tuberculosis (2022-2024):** Conducted comprehensive audits and meta-analyses to ensure data reliability and accuracy, crucial for advancing Tuberculosis research for a leading organization.
- **Cancer Biology (2022-2023):** Provided critical insights into tumor microenvironment and biology, evaluating the impact of treatments on tumor survival, pivotal for advancing cancer treatment strategies for multiple clients.
- **Bioinformatics Packaged Solutions (2021-2024):** Developed and implemented custom bioinformatics analysis frameworks, offering tailored solutions for diverse scientific needs. These innovations were utilized as unique service offerings, enhancing client capabilities effectively.