Samanwoy Mukhopadhyay

Bioinformatics Scientist

Contact

- Bengaluru, India
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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 — 3 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 upsell 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

I managed multiple client projects during my 3+ years in Industry. I worked as a technical subject matter expert for a number of projects that helped my clients achieve high quality insights that saved them time and cost getting meaning ful results to achieve there goal faster. this was mostly pharma companies trying to find drug targets or responsible for various diseases.

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

I conducted research on a diverse range of bacterial infections, with a primary focus on host responses in sepsis, viral cancers, and COVID-19. I utilized various transcriptomic technologies to drive these investigations.

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

I conducted both wet lab and dry lab experiments, from collecting samples in hospitals to generating transcriptome data for my PhD project. My research focused on studying the host transcriptome response to bacterial sepsis.

Projects

See my github profile for a comprehensive list of open source projects.

Single-Cell RNASeq and Gene Similarity Analysis (2022-2024)
Technical SME

Analyzed single-cell RNASeq data and established pipelines for gene similarity in siRNA treatments. Enhanced research capabilities, streamlined data analysis processes, and saved significant time and financial resources for clients by facilitating the development of targeted therapies.

Cancer and Transcriptomics Projects (2021-2024)
Technical SME

Conducted transcriptomics, proteomics, and meta-analysis across various cancers for different clients. Streamlined data analysis, accelerated insights into diverse cancer types, and delivered actionable results efficiently as a Technical SME.

Role of a specific protein in COVID-19 through omics data analysis
Technical SME

Evaluated the role of a protein of interest in COVID-19 through omics data analysis, providing critical insights. Accelerated research efforts, saved significant time and costs in planning future experiments for a reputed academic lab as a Technical SME.