

NIKHIL YENGALA REDDY

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OBJECTIVE

Adaptable and dedicated to promoting innovation in the development and optimization of data analysis and machine learning pipelines, as a data scientist who has a strong history in multidisciplinary research. Adept at organizing the creation and upkeep of complex databases to support research projects. Skilled in deciphering dense datasets that pose complex problems, I am dedicated to using data science approaches to extract meaningful insights.

EDUCATION

2021 – 2023	MS in Bioinformatics Johns Hopkins University, Maryland
2018 – 2021	BS in Molecular Biology, Minor Chemistry San Jose State University, California

RELEVANT EXPERIENCE

Research | Department of Microbiology and Bioinformatics | San Jose State University 2020-2020

Worked on Multidrug Resistance (MDR) genes to identify species from which they originate and to further understand the structure and mechanism through which it functions. The genes belonged to a family of proteins known as the major facilitator superfamily (MFS). Used Biopython to obtain large genomic data from PDB. The tools, such as MABL and UNIPROT, were used to understand the gene's origination through multiple sequence alignment with related species and then constructed a phylogenetic tree. Another tool such as Pymol was used to analyze the structure of MDR proteins.

Bioinformatics Academic Project | Department of Bioinformatics | San Jose State University 2019-2019

Identified and analyzed conserved regions in the Rhodopsin protein sequence among the various species. Performed series of data collection through the NCBI data bank. The tools, such as Galaxy and UCSC Genome Browser, was used to perform for NGS data analysis. In addition, the tool, WEBLOGO3, was used to make motif sequence to find highly conserved regions.

VOLUNTEER EXPERIENCE

Stanford University Medical Center Hospital | Stanford, California 2015-2015

- Interacted with supervisor to ensure the patients are comfortable.

Sinai Hospital | Baltimore, Maryland 2022-2023

- Collaborated with healthcare staff to ensure smooth patient flow and efficient operations.
- Demonstrated strong communication skills while interacting with diverse patient populations.

INVOLVEMENT

BSA Advisory Board Chair and Student Member 2019-2021

Biological Student Association (BSA), San Jose State University, San Jose, CA

- BSA Advisory Board is a program run by junior and senior students designed to advise students majoring in biology
 - Chair of BSA Advisory Board and served as a mentor to new and fellow students
- Participated in numerous club events (ie. Club Meetings, Doctorate Guest Speakers etc.)

SKILLS

- Python (Pandas, Spark, Jupyter), Java, HTML, CSS, JS, SQL, R (ggplot), Linux/UNIX, NGS, Tableau
- Coursework: Data Structures, Data Visualization, Algorithms for Bioinformatics, Epigenetics, Gene Organization & Expression, Practical Computer Concepts, Genomic and Personalized Medicine