VINOD JANGID

Bioinformatics Researcher

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SUMMARY

Bioinformatician & Computational Chemist with 2+ years of experience in QSAR modeling, Molecular modeling, AI-driven cheminformatics, and RNAseq data analysis. Experienced in designing computational pipelines for drug discovery, therapeutic peptide development, and large-scale biological data analysis

EDUCATION

Master of Science in Bioinformatics
Bharathiar University, Coimbatore | 2020 – 2022

Bachelor of Science in Biotechnology
Mohanlal Sukhadia University, Udaipur | 2017 – 2020

Diploma in Astrobiology
Indian Astrobiology Research Foundation | 2019

CERTIFICATIONS

- Tamilnadu State Council for Science and Technology - Student Projects Scheme Fellowship 2021-2022
- Human Molecular Genetics by NPTEL IIT, Kanpur (March 30, 2021)
- Computer-Aided Drug Design by NPTEL IIT, Madras (Oct 11, 2021)

PUBLICATION

- Machine Learning Optimization Approach to Design Multi-Epitope Marburg Vaccine Construct. Suyash S, Khan W. H, Maitra P, **Jangid V**, Punia P, Mishra A. Biotech Res Asia 2024;21(4).
- Computational Analysis to Identify Novel Drug Targets for Esophageal Cancer, **Jangid V**, C. N. Rahul, R. Aarthi., K. Sekar. (2024). Medinformatics

SKILLS

- **Molecular Docking:** Protein-ligand and protein-peptide interaction studies.
- **Molecular Dynamics Simulations:** Proficient in GROMACS for stability and interaction analysis.
- **QSAR Modeling:** Predictive modeling for small molecule inhibitors.
- **Free Energy Calculations:** MM/GBSA and free energy landscape studies for drug design.
- **Machine Learning:** Developed ML models for therapeutic peptide design and inhibitor prediction.
- **Virtual Screening:** High-throughput screening of compound libraries for drug discovery.
- **Python, R, Bash:** Automated bioinformatics and cheminformatics workflows.
- **High-Performance Computing:** Experience with HPC clusters for complex simulations.

PROFESSIONAL EXPERIENCE

Research Associate
Apr 2023 - Dec 2024

Growdea Technologies Private Limited, Gurugram

- Applied AI and ML models for drug discovery and molecular interaction predictions.
- Designed QSAR models and molecular dynamics workflows for targeted therapeutic application.
- Developed and optimized computational pipelines for RNA-seq analysis and differential gene expression studies

Bioinformatician
Apr 2023 - March 2024

Growdea Technologies Private Limited, Gurugram

- Conducted virtual screening, molecular docking, and free energy calculations to evaluate drug candidates.
- Analyzed high-throughput biological data to identify novel drug targets.
- Automated bioinformatics and cheminformatics pipelines for high-performance computing tasks.

Sales Assistant
Sep 2022 - Mar 2023

Wooden Gateway, Jodhpur

- Spearheaded business development efforts, identifying new client opportunities and expanding the customer base
- Drove social media marketing campaigns, increasing brand awareness and online presence

Project Intern
Jan 2022 - Jun 2022

Indian Institute of Science, Bengaluru

- Conducted RNA-seq analysis, including transcript assembly and functional annotation. Performed computational analyses for target identification in oncology project.

PROJECT HIGHLIGHTS

- **RNA-Seq Analysis for Oncology:** Designed and executed RNA-seq workflows to identify differential gene expression in cancer datasets, including transcriptome assembly and annotation.
- **Therapeutic Target Discovery:** Applied QSAR and molecular docking to identify inhibitors for infectious diseases and cancer therapies.
- **Drug Repurposing Studies:** Conducted computational analysis to repurpose FDA-approved drugs against emerging viral threats like SARS-CoV-2 and Marburg virus.
- **Network-Based Drug Discovery:** Utilized network pharmacology to identify synergistic drug combinations for infectious and chronic diseases