Gowri Suresh

Master Graduate
Mysuru | Karnataka | India
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OBJECTIVE

'Driven bioinformatics and data science enthusiast dedicated to achieving excellence through focused effort, proactive, problem-solving, and a positive mindset. To leverage my expertise in ongoing organizational projects while continuously enhancing skills, and aiming to contribute effectively in dynamic research environments.'

EDUCATION

11/2021 –7/2023

MASTER OF SCIENCE, BIOINFORMATICS
JSS ACADEMY OF HIGHER EDUCATION & RESEARCH, MYSURU, INDIA
Major Subjects: Molecular Biology, C Programming, R Programming, Cancer Biology, Python Programming, MATLAB, Structural Bioinformatics, Computer-aided Drug Design, Immunoinformatics
CGPA: 8.61/10.0
Master Thesis: "Comparative Performance Analysis of Random Forest and CNN for Brain Tumor Detection and Classification in MRI Imaging"

06/2018 – 10/2021

BACHELOR OF SCIENCE, BIOCHEMISTRY, MICROBIOLOGY, BIOTECHNOLOGY (BMBT)
UNIVERSITY OF MYSURU, MYSURU, INDIA
JSS COLLEGE FOR WOMEN, MYSURU, INDIA
Major Subjects: Immunology, Medical Microbiology, Metabolism, Genetic Engineering, Molecular Biology, Bioanalytical techniques
CGPA: 7.8/10.0

PROJECTS

3/2023 –7/2023

Dissertation - JSS Academy of Higher Education & Research

"Comparative Performance Analysis of Random Forest and CNN for Brain Tumor Detection and Classification in MRI Imaging"

- Aggregated multiple MRI image datasets from Kaggle and pre-processed for a better prediction by denoising, enhancing and segmenting using region of interest.
- Built a random forest and a CNN model in scikit-learn and keras (Tensorflow) to improve the accuracy and precision of the detection and classification of MRI of the brain tumor.

Tools: Jupyter Notebook, Git | **Language:** Python | **OS:** Windows | **Concepts:** Machine learning, Deep Learning

10/2022 – 2/2023

Internship -JSS Academy of Higher Education & Research

"Identification of MAPKAPK2 (MK2) Non-Competitive inhibitors via in-silico analysis"

- Screened ligands from BindingDB database and prepared the protein and ligands for the molecular docking studies for the identification of non-competitive inhibition of MAPKAPK2 protein.
- Identified 6 possible ligands through visualization of interactions and ADMET profile of the ligands.

Tools: PyMol, Chimera, Autodock tools, PyRx, Discovery Studio Visualizer, Avogadro 2.0 | **Databases:** BindingDB, ChemSpider | **Concepts:** Structure-based Drug Design, Virtual

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SKILLS

Programming Languages	Python, R	Intermediate
	C, MATLAB, SQL	Basic
Tools	PyMol, Chimera, Cytoscape, Avogadro 2.0, AurgusLab, Discovery Studio Vizualizer, AutoDock Tools, AutoDock 4.2. PyRx, KNIME	

LANGUAGE SKILLS

Kannada	Native
English	Negotiation

CERTIFICATIONS

- Certification of Appreciation for Poster Presentation titled " Machine Learning and Deep Learning Models for Brain Tumor Detection and Calssification of Magnetic Resonance Images" at International conference on "One Health: Biotechnology As A Catalyst For Sustainable Development (Heal-BioTec – 2023) organized by JSS ACADEMY OF HIGHER EDUCATION & RESEARCH and sponserd by DST-SERB, DBT and CSIR
- Certification of Bioinformatics workshop: Cheminformatics in Drug Design
- Certification of Bioinformatics: Application and Algorithms by NPTEL
- Certification of complete python programming from beginners to advance
- Participated in a four-day cloud-based hands-on workshop on computational structure-based design, biologics design, and quantum mechanics organized by Schrodinger
- Participated in a two-day workshop on hands-on training in a wet lab organized by IIT Madras

PERSONAL INTERESTS

Painting, playing shuttle badminton

Gowri Suresh