Gowri Suresh

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Linkedin | GitHub

Summary

Motivated data science enthusiast with a master's degree in Bioinformatics and a strong foundation in data analysis, machine learning, and research. Adept at extracting insights from complex datasets and translating scientific problems into data-driven solutions using Python and related tools. Committed to continuous learning and eager to contribute in collaborative, innovation-driven environments.

EDUCATION

JSS ACADEMY OF HIGHER EDUCATION & RESEARCH, MYSURU, INDIA **Nov 2021 – Jul 2023**

Master of Science, Bioinformatics **| CGPA:** 8.61/10.0

Relevant coursework: Molecular Biology, C Programming, R Programming, Cancer Biology, Python Programming, MATLAB, Structural Bioinformatics, Computer-aided Drug Design, Immunoinformatics

UNIVERSITY OF MYSURU, MYSURU, INDIA (JSS COLLEGE FOR WOMEN, MYSURU, INDIA) **Jun 2018 – Oct 2021**

Bachelor of Science, Biochemistry, Microbiology, Biotechnology (BMBt) **| CGPA:** 7.8/10.0

Relevant coursework: Immunology, Medical Microbiology, Metabolism, Genetic Engineering, Molecular Biology, Bioanalytical techniques

PROJECTS

Diabetes Prediction |Link **Apr 2025**

"Predicting the likelihood of Diabetes using Logistic Regression"

- Developed logistic regression model to predict diabetes based on patient health data.
- Applied pre-processing, feature selection, and performance evaluation (ROC-AUC, precision, recall).

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

Dissertation - JSS Academy of Higher Education & Research| Link **Mar 2023 – Jul 2023**

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

- Built and evaluated Random Forest and CNN models for classifying MRI images (gliomas, meningomas, pituitary tumors)
- Pre-processed data with techniques histogram equalization and segmentation techniques.
- RF achieved 89.89% accuracy, while CNN demonstrated 88.35% accuracy.

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

Internship -JSS Academy of Higher Education & Research **Oct 2022 – Feb 2023**

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

- Conducted virtual screening to identify non-competitive inhibitors for MAPKAPK2 using molecular docking techniques.
- Validated the 3M2W protein structure and analyzed 64 ligands, identifying 6 strong binders.
- Used tools like PyRx and Discovery Studio for molecular visualization.

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

TECHNICAL SKILLS

Programming: Python

Data Science & ML: Scikit-learn, Matplotlib, Pandas, Numpy, Tensorflow, Keras, seaborn

Databases: SQlite, MySQL

Tools: MS Excel, Jupyter notebook, Github

Concepts: Data cleaning, Feature engineering, Regression, Classification, Convolutional Neural Network

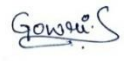
CERTIFICATIONS

- Data Science Masters Pro (Ineuron)- ***2024***
- **Poster Presentation**- "ML and DL Models for Brain Tumor Classification" Heal-BioTec– ***2023***
- Certification of Bioinformatics: Application and Algorithms by NPTEL - ***2022***
- Certification of complete Python programming from beginners to advance (UDEMY) – ***2022***

LANGUAGE SKILLS

English (Fluent),Kannada (Native), Hindi (Basic)

8th July 2025



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