



Bineet Kumar Mohanta

Contact Information

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Areas of interest

Bioinformatics, Computational Biology, Machine Learning, Algorithms, Genomics, Proteomics, Molecular dynamics simulations, Molecular Modelling, Drug Designing

Education

- **M.Sc. in LifeSciences(Bioinformatics)**, Department of computational Sciences, Central University of Punjab [2018-2020] -- Aggregate -(7.74/10) C.G.P.A
- **B.Sc in LifeSciences Zoology honors** North Odisha University [2015-2018] -- Aggregate Percentage - 77.38%
- **Intermediate(12th)** Jupiter +2 Science College, Bhubaneswar [2010-2012] -- Percentage - 71.33%
- **Matriculations(10th)** Board of Secondary Education, Orissa [2010] -- Percentage -79.33

Projects

M.Sc. dissertation work

“Exploration and comparative evaluation of machine learning techniques for image and sound-based abnormalities detection”

Summary

In this project, We have created and compared machine learning models using various algorithms including RF , SVM, CNN, ANN, etc to detect and classify the rice diseases Bacterial leaf blight, Brown spot, and Leaf smut from the image sample of leaf provided. We have managed to achieve an accuracy of 94.04% using the Support Vector Machine algorithm.

Academic Achievements

- Qualified for LS and JRF and secured **89th** rank in Life Sciences in **CSIR NET, June 2019**
- Secured All India Rank **200** in **GATE, 2020**

Skills

Operating Systems	Programming Languages	Softwares	Machine Learning Algorithms
Windows	Python	VMD	SVM
Linux (Ubuntu)	Perl	NAMD	CNN
	R	GROMACS	Random Forest
	Flutter	LaTeX	MLP
		etc.	etc.

Extra-curricular Activities

- Volunteered at “Molecular Modelling and Design, Bioinformatics” workshop, 03-03-2020 to 04-03-2020 at Central University of Punjab
- Participated in the “Azure Machine Learning Challenge” workshop, 14-11-2020 at Central University of Punjab
- Created and YouTube tutorial channel related to bioinformatics, named “Bioinformatica”.

