SAISAB SADHU

Indian Institute of Science Education and Research Bhopal (IISER Bhopal)

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EDUCATION	
B.S. Data Science and Engineering Indian Institute of Science Education and I	Research Bhopal
☐ December 2021 - July 2025	Bhopal, India
Cumulative Performance Index - 6.92	
Higher Secondary/12th U.P. Public School	
☐ June 2020	Suri, India
Percentage - 92.20 %	
Secondary/10th U.P. Public School	
☐ June 2018	Suri, India
Percentage - 94.40 %	
PROJECTS & CONTRIBUT	ΓIONS
Perception-Guided Model Predictive Co	ontrol for Autonomous Navigation in Constrained Waterways
December 2023 - Present	■ IISER Bhopal
Guide - Prof. Sujit PB	
Alzheimer's Disease Detection using Co Trustworthy BiometraVision Lab, IISER Bh	•
August 2023 - December 2023	■ IISER Bhopal
	combining cognitive analysis, CV, and ML for early detection of rocessing cognitive data (Handwriting, Facial Expression, Gait Analysis y features.
Integration of findings to create a diagno	ostic tool with a multimodal approach.
Development of Polymer based Pressu Machine Learning i-Lab, IISER Bhopal	re Sensors and Enhanced Material Expansion Detection using

Guide - Dr. Mitradip Bhattacharjee

May 2023 - July 2023

• Custom polymer-based piezoresistive sensors were fabricated using PEDOT:PSS and PDMS, utilising 3D printing for microstructure fabrication. The different microstructure dimensions and shapes on the polymer and their response to pressure variations were studied.

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• Machine learning techniques for predictive analysis and testing the sensors on inflatable objects with variable pressure were employed to achieve optimised results.

TECHNICAL SKILLS Programming & Scripting Languages: C, C++ (Arduino and ESP), Python (Pyautogui, GWPy, AstroPy, PyCBC, Bilby, NumPy, Matplotlib, Pandas, Jupyter Seaborn, ScikitLearn, SciPy, TensorFlow, Django, OpenCV, Keras, Pillow, YOLO), HTML, CSS, LTFX OS & Softwares: MATLAB, Mathematica, STATA, Creo 3d, Autocad, Origin Others: Quantum Framework: (Qiskit); Database Management: (SQL, MongoDB) CERTIFICATIONS & WORKSHOPS 7th Summer School on AI with focus on Computer Vision and Machine Learning The Centre for Visual Information Technology (CVIT) **August**, 2023 IIIT Hyderabad, India Wolfram South Asia Virtual Technology Conference South Asia Chapter February, 2023 Online Conference Introduction to Cybersecurity Tools Cyber Attacks **IBM** May, 2023 - June, 2023 Coursera RELAVANT COURSES **Ongoing Couses:** • DSE304 - Algorithms | DSE311 - Applied Optimization | DSE313 - Artificial Intelligence | DSE316 - Deep Learning | IPR500 - Law Relating to Intellectual Property and Patents **Credited Courses:** • ECO201 - Econometrics-I | ECO101 - Principles of Economics I | ECO102 - Principles of Economics II | MTH202 - Probability and Statistics | ECS335 - Introduction to Process Mining | DSE317 - Machine Learning | DSE310 -Fundamentals of Database Systems | DSE315 - Data Science in Practice | ECS202 - Data Structures and Algorithms | DSE312 - Computer Vision | ECS203 - Basic Electronics | | ECS201 - Discrete Mathematics I | ECS204 - Signals and Systems | PHY206 - Physics Through Computational Thinking | PHY106 - Quantum Physics | ECS102 - Introduction to Programming | CHE103 - Engineering Design and Drawing POSITIONS OF RESPONSIBILITY Secretary Student Developement Council, IISER Bhopal October, 2023 -Present IISER Bhopal, India Founding Member (Chairperson) **Entrepreneurship Cell, IISER Bhopal**

IISER Bhopal, India

December, 2023 - Present

Placement Coordinator

The Center for Career Development, IISER Bhopal

🛱 August, 2022 - October 2023

■ IISER Bhopal, India

REFEREES

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