NIVEDITHA S

A final year Biotechnology student

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EDUCATION

Micro-Credit Program | in Computer Science June 2024 - Present
 IIT-Gauwahati, Assam, India.

Bachelor of Technology | in Biotechnology August 2021 – Present
 Rajalakshmi Engineering College, Tamil Nadu, India.
 Cumulative GPA: 8.11/10

Higher Secondary Education (10+2) May 2019
 SBOA School & Junior College, Tamil Nadu, India.

Secondary School Education (10) May 2017
 SBOA School & Junior College, Tamil Nadu, India.

INTERNSHIP EXPERIENCE

Data Science Intern | KaaShiv InfoTech Pvt Ltd. March 2022
- Gained basic knowledge about analysing data, building models, and deriving insights using tools like Python.

Machine Learning and Neural Networks Intern | Techgyan Technologies - IIT Bombay December 2022 - January 2023
- Gained knowledge about developing, training, and optimizing predictive models using algorithms and neural network architectures to solve real-world problems.

Microbial Biofilms Intern | Centre of Excellence in Biofilms June 2023 – July 2023
- Gained experience in studying oral biofilms and conducting typodont model testing.

Microbial Quality Controller role in Pharma | BioLim - Centre for Science and Technology June 2024 - July 2024
- Gained expertise in microbial testing, environmental monitoring, and regulatory compliance to ensure pharmaceutical product safety and quality.

RESEARCH PROJECT | PUBLICATION

- A Multi-functional Aqueous Phytochemical Formulation for Minimalist Skincare and Urticaria Management
- FluoroCNN: CNN based Fluorescent Neuronal Cell Analysis and Tracking
- S. Niveditha, S. Shreyanth, V. Kathiroli, P. Agarwal and S. Ram Abishek, Kernelized Deep Networks for Speech Signal Segmentation Using Clustering and Artificial Intelligence in Neural Networks, 2023 IEEE 12th International Conference on Communication Systems and Network Technologies (CSNT), Bhopal, India, 2023, pp. 667-674. https://doi.org/10.1109/CSNT57126.2023.10134609

- Sethuraman, Bhalashri & Niveditha, S. (2023). Cerebrovascular Accident Prognosis using Supervised Machine Learning Algorithms. 1-8. 10.1109/WCONF58270.2023.10235122.
- Niveditha S, Prianka RR, Sathya K, Shreyanth S, Nandhagopal Subramani, Balakrishnan Deivasigamani and Karthikeyan S, Predicting Malware Classification and Family using Machine Learning: A Cuckoo Environment Approach with Automated Feature Selection, International Conference on Machine Learning and Data Engineering (ICMLDE), Procedia Computer science, Vol. 235, 2024. https://doi.org/10.1016/j.procs.2024.04.230
- Shreyanth, S., Harshitha, D.S. & Niveditha, S. Implementation of Machine Learning in VLSI Integrated Circuit Design. SN COMPUT. SCI. 4, 137 (2023). https://doi.org/10.1007/s42979-022-01580-5

BOOK CHAPTER

- Brain Computer Interfaces for elderly and disabled person Niveditha S, Shobana D, Visudha S, and Yazhini PM Book titled Machine Learning Models and Architectures for Biomedical Signal Processing' - Elsevier, 2023 (in Production)
- Functionalisation Strategies of Silver Nanoparticles P Rajasekar, Niveditha S, Visudha S, Yazhini PM, and Shobana D – Springer Nature, 2023 (in Production)

SKILLS

- Python
- Machine Learning
- Time Management and Team work
- Critical Thinking
- Problem-Solving
- Data Manipulation
- Data Cleaning and Preprocessing

INTELLECTUAL PROPERTY (PATENT & COPYRIGHT)

- Shreyanth Srikanth , Renangi Sandeep, Dr. Jayachandran Shanmuga Sundaram, Rajesh Perinkulam Krishnan, Niveditha Srikanth, Manpreet Singh, Dr. Ashok Kumar Katta, "Artificial Intelligence based nano robotic arm to operate endoscope motion", UK Design Patent, Design number: UK 6291782.
- Shreyanth S and Niveditha S, "Enhanced Tool for Efficient Video Organizer and Splitter with Multithreading", ROC Number: SW-16203/2023.

AWARDS

- **DISS FEST 2024 (First prize** in the Oral Presentation, April 2024**)** issued by Department of Pharmaceutical Technology, UCE, BIT Campus, Anna University, Tiruchirappalli
- **ENIGMA 2023 (Second prize** in the Poster Competition, October 2023**)** issued by Sri Manakula Vinayagar Engineering College, Madagadipet, Puducherry

CERTIFICATIONS, COMPETITONS & HACKATHONS

- Participated in Symposium Vitalizz'23 at Rajalakshmi Engineering College for Idea Presentation
- Finalist at Walmart Sparkathon
- Top 10 performer at Databricks Sparkwars hackathon
- Top 30 in EY Open Data Science Challenge 2024