Laxmikanta Sutar
Researcher

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in laxmikanta-sutar-74b2b1232

About me ───────────

A Final year budding CSE undergrad at NIT Rourkela, Constant Learner and Passionate Reader of certain Bestsellers. Keeps delight attentiveness regarding technical aspects of Cyber World. Analyzes an opportunity over the present demand at the Industrial level of application. Adept giving solutions to Real-World snags.

Skills ───────────

Skilled in Front-End Web Development, Linux Fundamentals, Windows Power-Shell, Digital Electronics, Robotics (Intermediate, Including under water robotics), Arduino, Fluid Mechanics., Practical Robotics. Cybersecurity (Computer Networks, Basics of Ethical Hacking, Pentesting, Etc.), CAD/CAM Softwares, Finite Element, ANSYS, COMSOL.

Skills ───────────

Proficient in Languages Like C, C++, Verilog (System Design), Java (Intermediate) Python (Intermediate), Data Structures (DS) and Algorithm Design, OS (Operating Systems) Concepts like Multi-threading, Scheduling, Synchronization, Multi-processing, Memory Management and Distributed OS. SQL(Advanced), DBMS.

Bibliography

An interdisciplinary, innovative Computer Scientist with inter-level experience specializing in IoT, Robotics(Terrestrial and Under-water), Mechatronics, building and testing Native-Android applications. Adept at developing and maintaining websites using UI/UX best practices and user-centered design principles to improve engagement and web traffic. A Passionate Vocalist, Choreophile and full-time Fitness Enthusiast.

Education

2020 - 2024 B.Tech in Computer Science and Engineering   NIT Rourkela
Proficient in Algorithms, System Design and Compiler Design, Machine Learning, Computer and Network Security, IoT. With Current CGPA till 6Th Semester: 8.69CGPA (86.90% in Academics), Also has other soft skills like team managements, Time bound outputs.

2022 - 2026 Online B.Sc.Data Science and Programming   IIT Madras
Developed a pricing algorithm that Increased $200k revenue. Improved retention or conversion rate by building a model to predict who would cancel their subscription and introduced an intervention to improve monthly retention from 90% to 93%. Improved engagement rate of Products, Used Numpy, Pandas Libraries, Python, SQL, and Tableau

2017 - 2019 High school   MBS Public School
From Foundations to Intermediate Levels in English Proficiency, Physics, Chemistry, Biology and Mathematics. Bagged both the School Topper and Best ALL Rounder Award 2017 in my Secondary as well as 2019 in my Senior Secondary Level. Passed my Intermediates with Cumulative Average of 83% and Cleared the Toughest Exam in India JEE with a percentile of 99.74 getting a seat in the Computer Science Branch at NIT Rourkela.

Pursued Courses and certifications

Jan 2021	CS50x: Computer Science from Harvard University.	Edx
Apr 2021	Design and Analysis of Algorithm by IIT Kharagpur	NPTEL
Aug 2021	2nd IBBI Quiz by Ministry of Finance	IBBI, GoI
Oct 2022	Top 10% in 3rd IBBI Quiz all over India	IBBI, GoI
Oct 2022	Stay Safe Online + Social Engineering Security Certification + NCSAM-Mobile and Android Security'22 Certification	MEiTy, GoI
Feb 2023	CHANAKYA UG Fellowship Granted by AWaDH-IIT Ropar	IIT Ropar
May 2022	C Programming with Linux Specialization by Dartmouth College	Coursera
July 2022	Introductory C Programming Specialization by Duke University	Coursera

Fellowships and Awards

2021	Awardee of TECH-QUIZ conducted by Delhi Technological University (DTU) in Questival 3.0.
2021	Awarded Best Performer Prize in ALCHEMY'21 of NIT Trichy.
2022	Top 10 in 3rd Insolvency and Bankruptcy Board of India (IBBI) Quiz by Ministry of Finance, Govt. of India.
2022	Research Fellowship offered by TIH-IIT Guwahati to work on Under Water Robotics.
2023	CHANAKYA UG Fellowship by IIT Ropar work on Cyber-Physical System DST Funded Projects.
2023	1st Prize in National Level Hackathon by Indian Statistical Institute, ISI Kolkata on Disaster Management By Building a real time Flood Inundation, Control and Detection Model.
2023	AVINYA Bharat Govt. of India Young Researcher Award 2023.

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Skills

Supply Chain Management, Operational Procedures and Communication Skills. MS Office, Excel & PowerPoint. Willingness to learn and develop Network Engineering skills, MATLAB, PyTorch, TensorFlow, JAVA/C#.Net, Android, Content Development and Strategy Information Graphics, Style Guides, Web Content Creation, Web Content Writing. Has a Good Grasp over academic Matters. Analytical and Critical Thinking. A well-organized Team player with the Capacity to stay professional in stressful/dispute situations. Fluency in English and Commendable.

Languages

English: Full Proficiency Level

Hindi: National Language

Odia: Bilingual Native

Sanskrit: Vedic Language

German: Beginner

Scale: 0 (basic skills) - 6 (expert).

Projects & Experiences

Apr-Nov 2021   **Subject Matter Expert (SME) in Physics**   *Chegg*
Interacting with students across all over Globe, Solving their Doubts to ace their Performance in Various Competitive Exams, Designed and prepared technical reports, studies and related documentation.

May'22-July'22   **Cybersecurity Virtual Experience Program**   *JPMC*
Analyze a Large Dataset of Fraud in Financial Payment Services, Using Application and Web Framework Security Fundamentals, Owasp Top10, Django, Build an Email Classifier under the cover of the machine learning model, Design and Develop a System to Tighten Access to Sensitive Information

Aug'22-May'23   **Research Intern for Developing Under water Robotics for surveillance and maneuvering purpose**   *IIT Guwahati*
Technical Team member responsible for Programming and Electronics part. Used ESP32, Arduino and Other IoT Sensors, Underwater Cameras, Communication systems for building an ROV that went up to 100m deep. Also studied about ANSYS 3D modeling and Simulations, Bridged Network Engineering, Python and MATLAB. Later Built an AUV using ML, DL and AI Trained Models.

Aug'22-Nov'22   **IP Cameras Security Engineer Intern**   *ProscanX Cybersecurity Co.*
Embedded Systems and Scan for Vulnerabilities, Open Ports, Protocols, Pentesting, Keyloggers, Web Scrapping, Information Gathering Tools.

Jan 2023   **Data Scientist MLE**   *Siemens Digital Industries*
Analyzed customer churn by developing predictive models, leading to a 12% reduction within 4 months. Created Deep Learning models with Keras for natural language processing tasks and improved sentiment analysis accuracy by 61%. Reduced forecasting errors by 18% by using time series models with Scikit-learn Fuzzy Methods. Implemented Deep Learning architectures with PyTorch for computer vision tasks, achieving a 42% reduction in false positives and negatives in object detection algorithms. Designed MySQL databases to efficiently handle large-scale datasets, lowering query response time by 54%

Mar'23 - Now   **Design and Development of Swarm Robots for Agriculture**   *IIT Ropar*
Research Fellow under CHANAKYA UG Fellowship'23 to work on Cyber-physical Systems. Federated Learning for enabling a wide range of IoT services, including IoT data sharing, data offloading and caching, crop/pest detection, localization, mobile crowd-sensing, and IoT privacy and security.

May'23 - Now   **Smart Healthcare in IoT and Artificial Neural Network(ANN)**   *NITR*
Used system identification and signal processing algorithms, Cloud Centric IoT (CCIoT) Technology to assess and estimate a person's probabilistic sensitivity to health status. For these purposes, a back-propagation based Artificial Neural Network (ANN) approach is employed as a prediction model, and it is separated into three phases: observation, learning, and prediction. The outputs are compared to several state-of-the-art methodologies in terms of prediction efficiency, temporal prediction, and stability to review the broad efficacy of the suggested model. an Energy Efficient Particle Swarm Optimization (PSO) based Clustering (EEPSOC) approach for effective cluster head (CH) selection among various IoT devices.

Other informations, Skills and Interests

I have my passion and Experience in working with Inter-disciplinary topics in IITs like IIT Kharagpur (Dept. of Computer Science), IIT Guwahati (Dept. Of Mechanical Engineering) and IIT Ropar (TIH-AWaDH Innovation Hub) in my 2nd and 3rd Years of my Under-graduate Program. Be Versatile, Integrating the domains of Engineering, irrespective of my major, for the betterment of the Society. Highly motivated student possess the Agility and availability to learn and discover new technologies and development languages.