LAKSHYA SANDHU

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EDUCATION

Jaypee Institute of Information Technology   **2021 − 2025**
Computer Science and Engineering

EXPERIENCE

Project Intern ⌕ | **TCS** - (Tata Consultancy Services), Noida   **June - present 2024**

- developing a comprehensive Human Resources Information System(HRIS) using **Java Swing** for the front-end user interface.
- Established a robust connection with a **MySQL** database, improving system performance by **25**% and optimizing data handling. Reduced manual data entry by 40% through the design of a user-friendly interface, enhancing overall efficiency.

Internship Trainee ⌕ | **GAIL** - (Gas Authority Of India Limited), Noida   **May- July 2023**

- Streamlined the passport application and registration process for over 200 employees by developing a user-friendly **SAP Fiori** application using **ABAP**, enhancing efficiency and user experience within the department.
- Its primary aim was to take the users details like phone number, Name, Email ID and saving it to there server for future reference .

PROJECTS

SustEarn- E-commerece Sustainable App ⌕ | **2023**

- Developed an API solution, achieving 95 percent accuracy, for accurate carbon footprint calculations for the company's e-commerce product leveraging advanced LLMs and Chain-of-Thought prompt engineering strategies.
- Optimized the emission calculation framework by integrating LCA benchmarks, achieving a significant reduction in discrepancies during audits, with a 40 percent decrease in identified errors from previous assessments.
- Maintained a stringent 20 percent error margin, promoting responsible consumerism and supporting environmental sustainability initiatives

EEG Emotion Detection ⌕ | python Web Development   **2023**

- Created an innovative real-time emotion detection framework using EEG headgear, processing 500+ brainwave signals per session; the resulting algorithms provided actionable data for user engagement strategies, enhancing overall product effectiveness.
- Pioneered an innovative framework using EEG technology to monitor emotional responses during product testing sessions, providing critical insights that informed design decisions and contributed to a 20% increase in user satisfaction scores and Classified emotions like happiness, sadness, fear, and anger with high accuracy of 93%.

Krishi Seva ⌕ | Finished in top 3 in OSDC Hack   **2023**

- Developed a **backend** algorithm that identified and connected farmers with profitable marketplaces, leading to an 60% increase in average farm revenue
- Implemented disease identification tools using **ML**, resulting in a reduction in 40% crop loss

TECHNICAL SKILLS

Languages: : C/C++, Javascript, HTML,CSS
Developer Tools: Github, Microsoft Excel
Technologies/Frameworks: C++ , Python Libraries
Areas of Interest: : Software Development, Data Analysis, AI
Databases: MySQL,DBMS, MongoDb.
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LEADERSHIP AND ACHIEVEMENTS

IEEE | volunteer and digital team member   **2023**

- Served as a Volunteer in the Digital Department of the Institute of Electrical and Electronics Engineers (IEEE) group.
- Assisted in the development and execution of digital strategies, improving user engagement by 20%.
- Spearheaded the organization of multiple high-engagement events at my college in collaboration with the IEEE team, attracting over 200 participants.