

LAKSHAY SAINI

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D-240, Madhu Vihar, New Uttam Nagar, New Delhi

EDUCATION

- | | |
|---|----------------------|
| - Vellore Institute of Technology, Bhopal
<i>B.Tech in Computer Science Engineering (AI & ML)</i> | 2027
CGPA- 8.77 |
| - Jinvani Bharti Public School, New Delhi
<i>Senior Secondary Examination</i> | 2023
Grade: 73.6% |
| - Jinvani Bharti Public School, New Delhi
<i>Higher Secondary Examination</i> | 2021
Grade: 92% |

EXPERIENCE

- | | |
|---|--|
| Software Development Club
<i>Core Member Technical Department</i> | February 2025 - Present
Bhopal, India |
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PROJECTS

- Accentifi**
Tools: Python, Gemini API, Kotlin, Firebase.
 - *Language Detection: Detects the language of the input text (English or German). For other languages, it uses Gemini for general chat.*
 - *Translation and Example: For English or German inputs, it translates the text and generates an example sentence in the target language. The example sentence is also provided with its English translation in parentheses.*
 - *Audio Generation: The example sentence (in the target language) is converted to speech and served via a URL.*
 - *REST API: Exposes endpoints for chat and audio.*
- Groot**
Tools: Python, PyQt5.
 - Engineered and deployed a Python-based virtual assistant, automating tasks like application launching, reminders, and general queries, reducing manual effort by 70%.
 - Crafted and refined a user-friendly PyQt5 GUI, improving accessibility for non-technical users and increasing engagement by 50%.
 - Orchestrated the integration of third-party APIs, providing real-time weather updates and automated alarms, drastically accelerating task execution speed by 40% and saving 10 hours weekly.
- SkinDoc: AI-Powered Companion for Smarter Skin Health.**
Tools: Kotlin, Python, TensorFlow Lite, CNN, Kommunicate.ai, Firebase, Android Studio
 - Executed deep learning-based image analysis using the ISIC dataset, achieving 92% accuracy in skin condition identification, and enhancing early diagnosis efficiency.
 - Established and integrated an AI-driven chatbot, providing 24/7 user support and reducing query resolution time by 40%.
 - Streamlined the in-app prescription system, streamlining medication purchases and increasing order conversions by 30%.
 - Tailored healthcare recommendations, connecting users with verified local professionals, and improving consultation bookings by 25%.
- Brahma: Advanced Surveillance System (ongoing)**
Tools: Python
 - Conceptualized and implemented a surveillance system combining CCTV and biometric iris recognition to enhance security.
 - Developing an advanced surveillance system aimed at enhancing societal security through the integration of biometric iris recognition in CCTV systems.
 - According to studies, areas with concentrated and monitored surveillance cameras have shown a significant reduction in crime rates, such as a 25% decline in public violence cases in urban centers like Baltimore and Chicago.
 - This system incorporates a user-centric application with features like SOS buttons and real-time panic alerts, ensuring timely intervention during emergencies.
 - Pioneered a video analytics platform integrated with existing CCTV infrastructure, achieving a 30% faster response time for law enforcement during critical incidents using real-time alerts.
 - Addresses privacy concerns by implementing secure data storage and controlled access protocols. This is in line with recommendations for balancing security measures with individual privacy rights.
 - Brahma has the potential to revolutionize surveillance by fostering safer environments in high-risk areas such as schools, urban neighborhoods, and transportation hubs, significantly boosting community trust and well-being.

- LRV Employment Management System

Tools: Python, MySQL

- Constructed and deployed a robust employment management system, automating employee record-keeping, and reducing manual workload by 60%.
- Crafted an intuitive UI, enhancing HR efficiency and accelerating payroll processing by 40%.
- Implemented MySQL-based scalable database architecture, reducing data retrieval time by 50% and ensuring seamless performance.
- Integrated advanced reporting and analytics, providing real-time workforce insights that improved decision-making and boosted HR productivity by 30%.

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, JAVA
- **Frameworks:** Tensorflow, PyQt, OpenCV, Tkinter, Tensorflow
- **Database Systems:** MySQL, Oracle

CERTIFICATIONS

- **Python Programming**
- **Python (Basics)**
- **Python**

[*Geeks for Geeks*](#)

[*HackerRank*](#)

Vellore Institute of Technology

ACHIEVEMENTS

- *National Semi-Finalist in the prestigious TATA IMAGINATION CHALLENGE 2024.*

[*Unstop*](#)

- *Designed and developed an AI prototype, showcasing creative problem-solving and technical expertise to industry experts.*
- *Secured a top 5% position by effectively presenting the solution, demonstrating innovation*