

Lakshay Saini

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

AI/ML ENGINEER

Innovative developer specializing in **Computer Vision** and **Natural Language Processing** with 5+ production-grade projects. Demonstrated expertise in building systems with **92%+ accuracy rates** and **70% efficiency gains**. Certified Python developer with hands-on experience in **TensorFlow, OpenCV, and cloud-based AI deployment**.

TECHNICAL PROFICIENCIES

AI/ML: TensorFlow, PyTorch, CNN, NLP, Computer Vision, Predictive Modeling, Gemini API

Programming: Python (Advanced), C++, Java, SQL, REST API Development

Frameworks: PyQt5, OpenCV, Firebase, Docker, Git

Databases: MySQL, Oracle, Firebase Realtime Database

PROFESSIONAL EXPERIENCE

Core Member - Technical Department <i>Software Development Club, VIT Bhopal</i>	Feb 2025 - Present
<ul style="list-style-type: none">- Mentored 15+ developers in ML best practices, improving code quality by 40%	

KEY PROJECTS

Brahma: Intelligent Surveillance System <i>Python, OpenCV, TensorFlow</i> <ul style="list-style-type: none">- Engineered real-time iris recognition with 98% accuracy, reducing security breaches by 30%- Architected GDPR-compliant data pipeline handling 10,000+ biometric profiles- Integrated panic alerts decreasing emergency response time to 90 seconds	Ongoing
Accentifi: Multilingual NLP Engine <i>Python, Gemini API, Kotlin</i> <ul style="list-style-type: none">- Developed language detection system with 92% accuracy across 5 languages- Created low-latency API handling 50+ RPS with <200ms response time- Implemented TTS generation reducing translation costs by \$200/month	2024
Groot: Virtual Assistant <i>Python, PyQt5</i> <ul style="list-style-type: none">- Automated 70% of daily tasks (app launching, reminders, queries) through voice commands- Designed intuitive GUI increasing user engagement by 50%- Integrated weather/calendar APIs saving users 10+ hours weekly	2023
LRV Employment System <i>Python, MySQL</i> <ul style="list-style-type: none">- Built HR management platform reducing payroll processing time by 40%- Optimized database queries cutting retrieval time from 5s to 2.5s- Developed analytics dashboard improving workforce decisions by 30%	2023

SkinDoc: Dermatology AI

2023

TensorFlow Lite, Android Studio

- **Trained** CNN model achieving 92% diagnostic accuracy on ISIC dataset
- **Reduced** prescription errors by 45% through automated validation
- **Increased** clinic bookings by 30% via integrated scheduling

EDUCATION

B.Tech Computer Science (AI & ML)

Expected 2027

Vellore Institute of Technology, Bhopal

CGPA: 8.74/10

Senior Secondary Education

2023

Jinvani Bharti Public School, New Delhi

73.6%

CERTIFICATIONS

Advanced Python - GeeksforGeeks (Top 5%)

Machine Learning - VIT Bhopal

AWS AI Fundamentals - In Progress

ACHIEVEMENTS

National Semi-Finalist - TATA Imagination Challenge 2024 (Top 5% nationwide)