LENA BABU

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SUMMARY

I am a passionate and driven AI and Data Science engineering student with a strong foundation in machine learning, deep learning, and software development. Proficient in Python, C, Java, Flutter, and R, with hands-on experience in developing AI-powered applications and mobile solutions. Passionate about applying data-driven insights to solve real-world challenges and innovate in the field of artificial intelligence.

TECHNICAL SKILLS

Programming Languages: Python, C, Java, R, Flutter, SQL, HTML

AI/ML Tools: TensorFlow, PyTorch, Scikit-learn, OpenCV, NLP techniques, NumPy

AI Agent Frameworks: CrewAI, LLM Agents

Software Development: Web and Mobile App Development, Memory Allocation Strategies

Version Control & Deployment: Git, GitHub, CI/CD, Cloud Platforms (e.g., AWS, Google Cloud)

Cloud-Based Design and Prototyping Tool: Figma UI/UX Design

Stock Management AI: LSTM, Flask, React, Time-Series Forecasting, Model Inference

PROJECTS

Auto Rickshaw Booking App　　　　　　　　　　　　　　　　2024 – Present
Mobile App Development　　　　　　　　　　　　　　　　　　*Flutter, Firebase*
- Developed a booking system for auto rickshaw drivers and passengers.
- Implemented real-time tracking and payment integrations.

AI Virtual Fitness Coach　　　　　　　　　　　　　　　　　2024 – Present
Computer Vision & Pose Estimation　　　　　*Python, OpenCV, MediaPipe, Streamlit*
- Built a fitness coach that detects and classifies workouts (squats, biceps curls, pushups) using body pose angles.
- Integrated real-time rep counting, voice alerts, and automatic workout detection using angle-based rules.

Theatre Anti-Piracy AI Camera Detection (T.A.P.A.C.D)　　　　　　　　2023
Computer Vision & AI　　　　　　　　　　　*Python, OpenCV, Machine Learning*
- Designed an AI model to detect unauthorized camera recordings in theaters.
- Implemented real-time detection using OpenCV and deep learning.

Key Cutting Shop Management System　　　　　　　　　　　　　　2024
Software Development　　　　　　　　　　　　　*Java, MySQL, Spring Boot*
- Developed a management system for key-cutting shops to track orders and inventory.
- Implemented a user-friendly interface for order management and customer tracking.

EXPERIENCE

Machine Learning Intern　　　　　　　　　　　　　　　　　　　2025
Outrix　　　　　　　　　　　　　　　　　　　　　　　　　*Remote*
- Worked on real-world ML projects involving model training and performance optimization.
- Applied supervised and unsupervised learning techniques on structured datasets.
- Collaborated with team to build scalable ML pipelines using Python and Scikit-learn.

Data Science Intern　　　　　　　　　　　　　　　　　　　　2025
Cognifyz Technologies　　　　　　　　　　　　　　　　　　*Remote*

Analyzed datasets and developed insights using Python, Pandas, and Matplotlib.

Built regression and classification models for predictive analytics use cases.

Prepared detailed reports and dashboards to support data-driven decisions.

AI & ML Workshop Participant   2024
Certificate Earned   *Hands-on AI/ML Training*

Explored ML concepts and practical applications in real-world scenarios.

Worked on advanced AI models and data-driven problem-solving.

AI Hackathon Participant   Various Competitions
AI Development   *Python, TensorFlow, OpenCV*

Developed innovative AI solutions in object detection and NLP under time constraints.

Designed and deployed AI models using Python, TensorFlow, and OpenCV.

Presented AI-based solutions to industry experts and received constructive feedback.

IEDC Support Team - Content Creator   2023
Innovation and Entrepreneurship Development Cell   *MES College of Engineering*

Created engaging content for promoting IEDC initiatives and events.

Collaborated with the team to enhance outreach through digital platforms.

EDUCATION

MES College of Engineering   2022 – 2026
B.TECH in Artificial Intelligence and Data Science, Semester VI   *Kuttipuram*

Sree Krishna Higher Secondary School, Guruvayur   2021 – 2022
Higher Secondary Education (Percentage: 90.5%)   *Thrissur*

Bethany St Johns HSS School, Kunnamkulam   2020
Board Examination (Percentage: 97.5%)   *Kunnamkulam*

CERTIFICATIONS

Apache Pig 101 - Cognitive Class (Issued by IBM Developer Skills Network)

Accessing Hadoop Data Using Hive - Cognitive Class (Issued by IBM Developer Skills Network)

First Prize Winner in Code Bytes - CESA XYBEREX 2.0

Apache Hive - Data Warehouse Software for Reading, Writing, and Managing Large Datasets (Issued by IBM)

Apache Pig - High-Level Platform for Creating Programs that Run on Apache Hadoop (Issued by IBM)

AI and ML Workshop Certificate

Certificate of Completion - Python for Data Science, AI Development

Certificate of Participation in UI/UX FIGMA

Certificate of Completion - Flutter Workshop

Certificate of Participation in CyberSecurity Workshop

LinkedIn Learning Certificates - View more: linkedin.com/in/lenababu