

INDUKUMAR PERLA

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OBJECTIVE

As a Computer Science graduate with a strong foundation in machine learning, deep learning, and data engineering, I have hands-on experience building ML models, developing data pipelines, and deploying AI-driven solutions. Through academic projects and research publications, I have applied ML techniques to solve real-world problems in computer vision, clustering, and AI-powered applications. I aim to contribute as an ML Engineer, leveraging my technical expertise to build scalable, production-ready AI systems.

EDUCATION

Bachelor of Engineering in computer science engineering,
Chandigarh University — CGPA: 7.59

2021-2025

SKILLS

| | |
|---------------------------------------|---|
| Programming Languages | Frameworks Python, PyTorch, Generative AI, SQL/PostgreSQL |
| Libraries | Tools NumPy, Pandas, Scikit-learn, LangChain |
| AI/ML Techniques | LLMs, RAGs, GANs, U-Net, Learning |
| MLOps | Deployment: API Integration and REST APIs |
| Cloud Platforms: AWS and Azure | |

EXPERIENCE

Gilbert Research Center *Nov 2025 - Present*

- Worked in an online internship role associated with the Clinical Diagnostic Prediction Department.
- Applied Python and machine learning concepts to support data analysis and model development tasks.
- Assisted in fine-tuning machine learning models and understanding AI workflows used in research projects.
- Collaborated remotely with team members to support AI-based research and development activities.

Web Work Waa *Dec 2022*

- Designed and developed machine learning models and AI prototypes through academic and internship-related projects.
- Applied Python and supervised learning techniques for data preprocessing, model training, and evaluation.
- Worked on end-to-end ML workflows, including dataset preparation and basic deployment of project-ready models.
- Collaborated with peers and mentors to integrate AI components into practical systems.
- Demonstrated consistency and initiative in applying machine learning concepts in research-oriented environments.

PROJECTS

S.P.A.R.K- Secure Police Archive Record Keeper *Jul 2025*

- AI 4 Andhra Police Innovation Hackathon 2025 (Guntur RVR & JC College, Onsite) – Emerged as **Runners-Up**.
- Mission: Built a solution to support Andhra Pradesh Police by digitizing and organizing service records.
- Solution Developed: **AI-driven Service Record Digitization System** featuring:

- Document parsing and classification for records such as Earned Leave, Medical Leave, Punishment, Probation, and Reward letters.
- Dual-pane user interface for reviewing extracted data alongside scanned documents.
- QR-based mobile upload functionality to improve accessibility in rural areas.
- Generation of clean, searchable, and auditable JSON records.
- Multi-language translation to English with structured database storage.
- Live testing with real police data, including stamp and signature prediction.
- Presentation: Delivered a 1-hour live demonstration before DGP, ADGP, IG, PRISM Inspectors, and senior faculty members.

100x DeepChartify — AI-Powered Data Insight Platform

Jan 2025

- Developed an AI-driven platform combining structured and unstructured data to generate actionable insights and visualizations.
- Implemented LLM- and RAG-based pipelines using FAISS/Pinecone for context-aware retrieval and intelligent data interpretation.
- Built and deployed a FastAPI + React application integrated with OpenAI APIs for real-time analysis and insight generation.
- Delivered interactive dashboards enabling users to explore trends, correlations, and AI-generated insights.
- Impact: Enabled engineers to accelerate development cycles, reduce testing bottlenecks, and confidently ship LLM-integrated applications.

CERTIFICATIONS

AI Agentic Design Patterns with AutoGen

Jan 2025 – Feb 2025

- learned to build multi-agent systems, apply GenAI tools/frameworks, task automation and retrieval-augmented generation.

Production Machine Learning Systems

Feb 2024 – Apr 2024

- Gained hands-on experience deploying machine learning systems on Google Cloud Platform (GCP), covering MLOps best practices, scalability, and monitoring.

ACHIEVEMENTS

- Runners – AI 4 AP Police Hackathon, developed an AI-driven solution for law enforcement
- Received the best paper of the session in IEEE conference for road detection using satellite images research paper.
- Published a research paper in the IEEE conference in the machine learning domain.