

Gulshan Singh

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EXPERIENCE

AI Lead

GeoPathos Private Limited (DPIIT Recognized HealthTech Startup)

July 2025 – Present

Ghaziabad, Uttar Pradesh, India

- Leading AI model development for real-time healthcare monitoring solutions.
- Designing and optimizing ML pipelines for predictive health analytics.
- Researching integration of Computer Vision modules for advanced monitoring use-cases.
- Exploring facial recognition systems for secure patient identification workflows.
- Represented startup at AI Summit – Chandigarh University.

AI/ML Research Intern

Overload Ware Labs AI

June 2025

Remote

- Conducted research on Multimodal Retrieval-Augmented Generation (MRAG) systems.
- Analyzed retrieval strategies including shared embedding space, grounding-to-text, and hybrid re-ranking pipelines.

AI Trainee Intern

TechSaksham (Microsoft & SAP CSR Initiative)

February 2025 - March 2025

Remote

- Completed AI internship under TechSaksham and worked on deep learning model development, preprocessing, and evaluation.
- Gained hands-on experience in deep learning model development and evaluation.
- Implemented CNN-based image classification system as part of structured AI program.

CODING PROFILES

Codechef profile: abit231520081

- Solved 500+ difficulty-rated problems.
- Earned CodeChef Gold Badge (Problem Solver).

TECHNICAL SKILLS

- Languages: Python, C++
- Machine Learning: Supervised Learning, Prediction & Model Evaluation, Feature Engineering
- Deep Learning & Computer Vision: CNN, Transformers (Vision), Image Processing, OpenCV
- Generative AI: RAG, Multimodal RAG, Embeddings
- Backend & Deployment: Flask, FastAPI, Streamlit
- Tools: Docker, Git, GitHub, Linux
- Core CS: Data Structures & Algorithms, OOPS



CERTIFICATIONS

- Applied Machine Learning using Python – NIT Kurukshetra (2025)
- AI for Face Recognition & Object Detection Bootcamp – Smarted Innovations (2025)

PROJECTS

PPE Violation Detection System

Project duration- 2 months

- Built PPE compliance detection prototype using YOLOv11s for 4 classes (Helmet, No Helmet, Jacket, No Jacket) on custom dataset of 66 annotated images.
- Trained model for 50 epochs (640×640 resolution, batch size 8) achieving 0.89 mAP@0.5 and best F1-score of 0.89.
- Implemented confidence-based safety logic for real-time SAFE/UNSAFE classification and alert system.

Potato Leaf Disease Detection

Project duration- 2 Month

- Created Codeial Built image classification model using Convolutional Neural Networks (CNN) to detect Early Blight, Late Blight, and Healthy potato leaves.
- Performed image preprocessing and resizing (128×128) for model input pipeline.
- Achieved 92% validation accuracy on 1500, 3-class dataset.
- Developed interactive web application using Streamlit for real-time disease prediction.

Loan Navigator

Project duration- 2 month

- Developed end-to-end ML web application for loan approval prediction and CIBIL score estimation.
- Trained supervised learning model and integrated scaler pipeline for real-time predictions.
- Implemented secure user authentication using SQLite.
- Built multi-page Streamlit interface for real-time predictions.

EDUCATION

B.Tech in Computer Science

ABES Institute Of Technology

2023 – 2027

CGPA: 7.1

EXTRA CURRICULAR

- GDGC – Core Technical Team Member
- Prayaas (ELC) – Core Technical Team Member