Lakshay Singh langeh

## Linkedin<https://www.linkedin.com/in/lakshay-singh08/> Email: lakshayll1235@gmail.com

Github: <https://github.com/dEaDsHoT1235> Mobile: +91-6005934171

# Skills

* **Languages**: C,C++, Java, Python
* **Developer Tools**: Git, GitHub, Oracle SQL
* **Soft Skills**: Problem-Solving Skills, Team Player, Project Management, Adaptability
* **Areas of Interest**: Competitive Programming, Machine Learning, Game development

# Projects

#### Credit Card Fraud Detection Mechanism: Sept 2024-Nov 2024

Developed a machine learning model to detect fraudulent transactions.

Processed datasets using Python libraries like Pandas, NumPy, and Seaborn for exploratory data analysis (EDA).

Implemented various ML algorithms and optimized feature selection to improve accuracy.

Used Git for version control and collaborated on debugging and testing.

**Tech:** Python, Pandas, NumPy, Seaborn, Scikit-learn, Git

#### Titanic Survival Analysis: Jun 2024-Jul 2024

Built a machine learning model to analyze survival probabilities in the Titanic disaster.

Conducted feature engineering and applied supervised learning models to make accurate predictions.

Debugged and optimized model performance through iterative testing.  
**Tech:** Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn

#### Traffic Video Enhancement Using Yolo4: Feb 2025-Mar 2025

#### Developed a traffic video enhancement system using YOLOv4 for real-time object detection, tracking, and video quality improvement. Implemented vehicle/pedestrian detection, DeepSORT-based tracking, and OpenCV-based denoising for clearer traffic analytics. Enhanced low-resolution videos using super-resolution techniques and estimated vehicle speeds using pixel-to-meter conversion. Optimized inference with TensorRT for edge deployment.

#### Skills: YOLOv4, OpenCV, DeepSORT, TensorRT, Video Processing, Object Detection & Tracking, Python.

#### Plastic Waste Management Website: Jan 2024-Feb 2024

A website dedicated to raising awareness about plastic waste management.

Built using HTML, CSS, and JavaScript for a responsive and user-friendly design.

Offers informative content on the environmental impact of plastic pollution.

Provides practical solutions and tips for plastic waste reduction and recycling.

Promotes sustainable alternatives and encourages user engagement on environmental issues.

**Tech:** HTML, CSS, JavaScript

# Certificates

## Data Structures and Algorithms - Self Paced (Geeks For Geeks) Aug 2024

* Dynamic Programming, Greedy Algorithms (Coursera) Apr 2024
* Generative AI with Large Language Models (Coursera) Mar 2024

# Achievements

#### Solved 200+ Problems on various coding platforms: Jan 2025

Solving DSA problems and regular participating at Leetcode and GeeksForGeeks.

* **Active Participation in Multiple Contests:** Jan2025

Competing in Various Coding and Tech Contests to Enhance Skills and Gain Experience

# Education

**Lovely Professional University** Punjab, India

### Bachelor of Technology - Computer Science and Engineering; **CGPA: 6.7** Aug 2022 - Present

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**KC Public School** Jammu, J&k

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### Intermediate; **Percentage: 80.4%** Apr 2019 - Mar 2020

**KC Public School** Jammu , J&k

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### Matriculation; **Percentage: 84.4%** Apr 2018 - Mar 2019