

## Mahir Sajad

Kulgam, Jammu and Kashmir 192231

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## Internship/Training

### Training

June 2024 - July 2024

#### Board Infinity

- Successfully completed rigorous training in Data Structures and Algorithms (DSA) with a focus on scalability and efficiency optimization
- Developed a functional C++ library management system leveraging advanced data structures (binary search trees, linked lists, hash maps) for efficient book management operations.
- Gained hands-on experience in **algorithm optimization, competitive programming techniques, and real-world software development best practices**, enhancing problem-solving and coding proficiency.

## Projects

### People Counting System using YOLOv8

Mar 2025-Apr 2025

- Built a people counting system using YOLOv8 on Google Collab to detect and count individuals from video surveillance footage.
- Planning to integrate ML-powered route optimization into the platform, considering distance, time, and cost for efficient travel planning
- Future scope includes integrating Deep Sort for tracking, adding performance metrics like FPS and precision, and building a dashboard for visualization.

GitHub Repository Link: <https://github.com/Mahir-msk/Crowd-detection-Using-YOLOV8>

### Text Processing ML Model

June 2024 - July 2024

- Developed an intelligent text processing pipeline integrating TF-IDF, word embeddings (Word2Vec, Glove, or BERT), and translation models for enhanced text analysis.
- Applied Natural Language Processing (NLP) techniques to improve document classification, keyword extraction, and semantic understanding
- Future scope includes fine-tuning transformer models (BERT, GPT) for context-aware text processing and sentiment analysis

## Certificates

### Complete Machine Learning & Data Science Program

Since Apr 2025

Geeks for Geeks

### Supervised Machine Learning

Since Jan 2025

Coursera

### Prompt Engineering for ChatGPT

Dec 2024

Vanderbilt University

## Technical Skills

**Languages** C++, Python, JavaScript

**Technologies/Frameworks:** Bootstrap, Git, GitHub, Ubuntu

**Skills:** Data Structures and Algorithms, Problem-Solving, JavaScript, Supervised learning, Unsupervised Learning

**Tools and Libraries:** NumPy, Pandas, OpenCV, Matplotlib

## Achievements

- Secured 2nd rank in the Event: Incredible 8: Mar 2023-Apr 2023  
Participated and ranked 2nd in the Event organized by LPU
- Contributed to Google's Nibbler Project – Text-to-Image Model Development: Dec 2024-Jan 2025  
Participated in the Google Niobller initiative and trained a deep learning model to generate images from text prompts.

## Education

### Lovely Professional University Punjab

2022 – 2026

Computer Science and Engineering — CGPA: 7.7

Phagwara, Punjab

### Sir Syed Memorial

2021 – 2022

Higher Secondary School Certificate — Percentage: 85%

Srinagar, Jammu & Kashmir

### New Convent School

2019 – 2020

Secondary School Certificate — Percentage: 88%

Srinagar, Jammu & Kashmir