# SATYAM TYAGI

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## OBJECTIVE

To leverage my academic background in computer science and hands-on programming experience to contribute to reliable, process-driven solutions. I aim to grow as a versatile professional by applying analytical thinking, strong coding skills, and effective communication while collaborating with teams and continuously learning in an evolving technology environment.

## EDUCATION

**Masters of Computer Science** | University of Petroleum & Energy Studies, Dehradun, Uttarakhand — Expected 2026

Specialization: Artificial Intelligence & Machine Learning

**Bachelors of Computer Science** | Ch. Charan Singh University, Meerut, Uttar Pradesh — 2020 to 2023

## SKILLS

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| Technical Skills | Python, JavaScript, Machine Learning, SQL, OOPS, DBMS, SDLC, AWS, GIT |
| Soft Skills | Adaptability, Creativity, Communication, Problem Solving, Team Collaboration |

## EXPERIENCE

**Data Science & Machine Learning Intern** — 25, June 25 to 25, Aug 25
Zaalima Development Pvt. Ltd | Bangalore, Karnataka

- Experienced to work on live projects under an expert trainer and a team environment.
- Helped in selecting an optimal approach towards the project using my knowledge on the subject achieving over 97% accuracy during evaluation.
- Projects: Fraud Detection System for Financial Transactions, AI-Based Resume Screening System.

## PROJECTS

**Music Emotion Recognition.**

Built a robust and efficient system capable of classifying emotions in Hindi music clips based on audio features. By leveraging deep learning/pattern recognition techniques and advanced audio processing methods, the project aims to recognize emotions such as Sadness, Romance, Devotion, Party Vibes, and Happiness. The ultimate objective is to enhance human-computer interaction by enabling machines to understand the emotional context of music, which has applications in personalized music recommendations, mood-based playlists, and therapeutic music interventions.

**Detection of Over-Exposed Vehicle Headlights.**

Developed a glare-aware vehicle plate recognition system that integrates glare detection, vehicle localization, and license plate recognition into a unified computer vision pipeline. The model achieved a Glare Detection Accuracy of 98.39%, a Vehicle Detection mAP@50 of 95.6%, and a Plate Detection mAP@50 of 85.6%, demonstrating strong robustness in real-world conditions. To support practical deployment, also implemented snapshot logging and reporting for glare-affected vehicles, enabling downstream analytics and safety audits.

## LEADERSHIP

- Project/Team Lead for Zaalima Technologies with over 4+ members working on multiple projects simultaneously and reporting progress to the trainers also taking guidance for them to deliver a robust and optimal product.

## EXTRA-CURRICULAR ACTIVITIES

- Semi-Finalists at CBSE Cluster National Level Football Tournament 2020