

Sumit Kumar Jaiswal

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Summary

I am a Computer Science Graduate and have a strong understanding of Machine Learning and Web Development. I love making smart systems and data-driven apps that solve problems in the real world. I have worked on artificial intelligence projects as an intern, where I was able to make models that were very accurate. I want to use my skills to help with new technology projects.

Education

Royal Global University <i>B.Tech in Computer Science</i>	Expected 2026 <i>Guwahati, Assam, India</i>
Little Star Higher Secondary School 85%	2022 <i>Dimapur, Nagaland, India</i>

Skills

- Programming:** Python, C/C++, JavaScript, SQL
- Machine Learning:** TensorFlow, Keras, CNN, YOLOv8
- Computer Vision:** OpenCV, Image Processing
- Data Science:** Pandas, NumPy, Scikit-learn
- Web:** JavaScript, Streamlit, HTML, CSS
- Tools:** Git, GitHub, VS Code, Jupyter

Internship

AI/ML Intern <i>National Institute of Electronics & Information Technology (NIELIT)</i>	June 2025 – July 2025
- I finished a 120-hour internship in Python for Artificial Intelligence and Machine Learning. - Made a CNN-based model that can find brain tumours in MRI pictures. - Used OpenCV to make a pipeline for preprocessing images to find brain regions. - Used data augmentation and hyperparameter tuning to get 96–98% accuracy. - Used accuracy, precision, recall, and a confusion matrix to check how well the model worked.	
AI & ML Research Intern <i>National Institute of Electronics & Information Technology (NIELIT)</i>	July 2024 – August 2024
- Built computer vision models with TensorFlow and Keras that were 92% accurate. - Helped create and put into use AI and ML solutions. - Helped with writing up research and showing the results to senior researchers.	

Projects

Automatic Number Plate Detection & Recognition System <i>Final Year Project</i>	Sep 2025 – Present
- Designed and developed an Automatic Number Plate Recognition (ANPR) system for vehicle identification. - Used YOLOv8 to find and locate vehicle license plates by detecting objects. - Trained deep learning models like MobileNet and CNN, which got more than 90% accuracy. - Created a complete system for finding vehicles, locating license plates, and recognising characters using OCR. - Technologies: Python, OpenCV, YOLOv8, MobileNet, and CNN.	
WhatsApp Conversation Analyser	Live Demo — GitHub
- Used Natural Language Processing (NLP) to analyze more than 100,000 WhatsApp messages. - Made interactive charts to analyze message frequency and user activity. - Used sentiment analysis and emoji frequency analysis to get communication insights. - Technologies: Python, Pandas, Matplotlib, and NLP.	
Movie Recommendation Engine	GitHub
- Developed a content-based recommendation system using cosine similarity and Pandas. - Integrated the TMDb API to dynamically fetch movie metadata and posters. - Built an interactive Streamlit web application with genre and rating filters. - Processed over 50,000+ movies, achieving over 95% recommendation relevance.	
Facial Expression Recognition System	Live Demo — GitHub
- Developed a CNN-based facial emotion recognition system achieving 89% accuracy. - Implemented real-time face detection and preprocessing using OpenCV. - Deployed the optimized model using TensorFlow Lite for real-time prediction.	

Certifications

- Cloud Computing Bootcamp — NIELIT (2025)
- Machine Learning Workshop — IIT Kharagpur (2024)
- AI Data Analytics — Geeks of Gurukul (2024)
- Cybersecurity Awareness — Trusnetix (2023)