ASHOK KUMAR KHATTA
COMPUTER VISION ENGINEER

Motivated and enthusiastic Computer Vision engineer with a strong academic background and a passion for leveraging technology to drive innovation. Seeking a challenging role to apply my skills and knowledge in computer vision, machine learning, Natural Language processing and data analysis to contribute to the success of an organization.

TECHNICAL SKILLS

Programming Languages: Python, Java and SQL.
Frameworks: Keras, Tensorflow, Pytorch, CNN, RNN, YOLOv5, GANs, BERT, LSTM.
Tools: Microsoft Excel, PowerBI, Tableau.
Libraries: OpenCV, Scikit learn, Pandas, Numpy, Scipy, Matplotlib, Torch, TensorRT, NLTK, SpaCy, CoreNLP, TextBlob,BeautifulSoup.
Edge Computing: ONNX, TFLite, Raspberry Pi, Jetson Nano, Arduino, Deepstream, OpenVINO.
Web Technologies: HTML5, CSS3, Java Scripts, Flask.
Databases: MySql, SqLite.

LANGUAGE

Hindi
English

CONTACT

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EXPERIENCE

COMPUTER VISION INTERN GREENTECH ITS LLP, NEW DELHI	DEC 2022- APRIL 2024

Automatic Vehicle Classification and Traffic Counter (AVCC &ATCC)
Designed and developed real time vehicle detection, classification and counting using OpenCV, Yolov5 and PyTorch at Toll Plaza. Multi Class vehicle classification and tracking for highway management with 97% accuracy.

Video based Incident Detection System
Implemented incident detection such as stopped vehicle, accident, wrong direction, fire, smog for highway management system (HTMS) using OpenCV and TensorFlow framework.

Personal Protective Equipment
Developed a detection system for detection of Mask, Helmet, Shoes and jackets for safety of workers at industrial site. Object Detection is performed using Yolov5 and PyTorch.

AVCC Web Dashboard using Flask
Developed a responsive Web Dashboard for monitoring real-time vehicle detection and auditing using Python, HTML, CSS, JavaScript, Flask and stored detection values in SQL Database.

Theft Detection using Jetson Nano
Developed a theft detection system for suspect activity of car theft detection using yolov8 and deployed it on edge device (Jetson Nano). Implemented Alert system for suspect activity.

Automatic Number Plate Recognition
Designed and Developed ANPR model for license plate recognition on highway using 5MP Bullet camera. Built custom OCR for desired accuracy of 95%.

Road Safety Violation
Designed and Developed road safety violation model for detection of helmet, no helmet, tripling seatbelt and no seatbelt detection on highway using PTZ camera.

EDUCATION

MASTER OF TECHNOLOGY (COMPUTER SCIENCE & ENGINEERING)	2022
Sant Longowal Institute of Engineering and Technology, Longowal, Punjab **Course Work**: Machine Learning, Deep Learning, Pattern Recognition.	
BACHELOR OF TECHNOLOGY (COMPUTER SCIENCE & ENGINEERING)	2019
Bhagwan Parshuram Institute of Technology, Delhi (GGSIPU) **Course Work**: Algorithms, Data Structure, Database Management, Operating System, Computer Network.	

PROJECTS

Comparison of Different Face Algorithm using Euclidean Distance
Face Recognition with Attendance System
Web Scraping and Sentiment Analysis
Airbnb Analysis Dashboard with Tableu
Data Professional Survey Dashboard with PowerBI
Attrition Rate Dashboard with PowerBI
Vehicle Routing Problem with Value Iteration Network.