ISHIKA GOYAL

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EXPERIENCE

Trainee at Global Research & Innovation Lab

- Gained hands-on experience in DGX-A100, CUDA, OpenCV, TensorRT, TensorFlow.
- Conducted data analysis and troubleshooting to optimize performance.
- Collaborated with other trainees and colleagues to improve workflow and project execution.

TECHNICAL SKILLS

- **Programming Languages**
  - **Python**
  - **Java**
- **Database & Storage**
  - **SQL**
- **Frameworks & Libraries**
  - **HTML, CSS**
  - **TensorFlow, PyTorch, TensorRT**
  - **OpenCV, MTCNN, YOLO**

COURSEWORK SUBJECTS

- **Operating System**
- **Computer Networks**
- **Object Oriented Programming**
- **Data Structure and Algorithm**
- **Discrete Structure and Theory of Logic**

INTERPERSONAL SKILLS

- Communication
- Adaptability
- Teamwork
- Leadership
- Active Listening

COURSEWORK SUBJECTS

- Softpro India Computer Technologies (P) Ltd. Online Certification on Java under IAIP
- Gen AI Study Jams 2024-2025 completion along with exploring Generative AI and Cloud Computing foundation
- Web Development and Design Training certification under CRC Department

EDUCATION

B.Tech CSE(AI) - 8.77 CGPA

ABES Institute of Technology

2022 – 2026 | Ghaziabad, UP

Intermediate: 80%

Lord Mahavira Academy

2022 | Saharanpur, UP

Secondary Higher Education: 91%

Lord Mahavira Academy

2020 | Saharanpur, UP

PROJECTS

Multi-Person Face Recognition (MPFR) on NVIDIA DGX

(Python, TensorFlow, PyTorch, OpenCV, TensorRT, CUDA, Docker, NVIDIA DGX)

- Implemented real-time multi-person face recognition on NVIDIA DGX using DeepStream SDK and TensorRT.
- Optimized face detection (RetinaFace/YOLO) and recognition (ArcFace/FaceNet) for high-speed inference.
- Integrated FAISS for fast similarity search and improved model inference speed by 30%+ using GPU acceleration.

Intelligent Speed Monitoring System

(Python, OpenCV, YOLO, TensorRT, Flask, NVIDIA DGX/Jetson, NumPy, OpenCV, CUDA.)

- Developed an AI-powered real-time speed monitoring system using computer vision.
- Implemented YOLO for vehicle detection and DeepSORT/Optical Flow for tracking.
- Integrated Flask for seamless API-based access and real-time alerts.

DocFusion – Automated Summarization of Multi-Document PDFs and LaTeX Files)

- Integrated NLP techniques with Milvus vector database to store and search document embeddings for efficient semantic understanding.
- The system extracts key insights, clusters related content, and generates concise summaries, improving knowledge extraction from large volumes of academic or technical documents.