SAGAR **VINOD GOUR**

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Summary

AI/ML professional with a solid foundation in deep learning, computer vision, and neural network-based development. Skilled in building and optimizing intelligent systems using tools such as PyTorch, TensorFlow, and OpenCV. Experienced in both academic research and industry roles, including database management and real-world AI applications. Proven success in medical imaging projects, reinforcement learning, and character recognition. Currently pursuing an M.S. in Artificial Intelligence, with a focus on developing scalable, data-driven solutions that address complex technical challenges.

Skills

- Machine Learning
- PyTorch Framework
- Python Programming
- Database Management
- TensorFlow Development
- Graph Theory
- Deep Learning
- Computer Vision
- Problem Solving
- Detail Orientation
- Adaptive Mindset
- Analytical Thinking
- Time Management
- Team Collaboration
- Clear Communication

Experience

Database Administrator **05/2021 to 09/2022**
Datavail **Mumbai, India**

- Monitored and optimized database performance by identifying and resolving critical bottlenecks, improving query efficiency and system responsiveness.
- Ensured database security and data integrity through proactive maintenance routines and implementation of robust optimization strategies.
- Supported enterprise-level applications by executing seamless data migration and system integration across cross-functional platforms.
- Conducted performance tuning and preventative diagnostics to maintain consistent database uptime and minimize operational disruptions.
- Collaborated with development and infrastructure teams to implement scalable database solutions aligned with business and security requirements.

Education and Training

Master of Science: **Artificial Intelligence** **05/2025**
Long Island University New York City, NY

Bachelor of Engineering: **Computer Science** **05/2019**
Thakur College of Engineering & Technology Mumbai, India

Certifications

Esophageal Cancer Classifier using ResNet50 **Spring 2025**

- Created a ResNet50-based classifier for esophageal cancer stages, achieving 90% accuracy on the Kvasir V2 dataset.
- Technologies: PyTorch, CUDA, Medical Imaging

Numeric Character Recognition **Spring 2024**

- Designed a deep learning model for numeric character recognition, achieving 98% accuracy; ranked 5th in a Kaggle competition.
- Technologies: TensorFlow / Keras, Image Processing

Liver Vessel Segmentation with PINN and Graph-based Connectivity **Summer 2024**

- Developed a segmentation model using Physics-Informed Neural Networks (PINNs) and graph-based connectivity, achieving 94% accuracy with k-fold cross-validation.
- Technologies: Python, PyTorch, Graph Theory