SALMAN SANADI

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EDUCATION

KLE TECHNOLOGICAL UNIVERSITY (B.E. IN CSE)	**8.93 CGPA**	**2022-2026**
ALVAS PU COLLEGE (12TH SSLC)	**95.3%**	**2020-2022**
GOKAK EDUCATION SOCIETY HIGH SCHOOL (10TH SSLC)	**95.6%**	**2011-2020**

PROFESSIONAL EXPERIENCE

NVIDIA

Project Intern **Aug 2024 - Jan2025**

- Designed a framework to evaluate the effect of **SNR degradation** on deep neural network performance, with an emphasis on **small object detection**.
- Processed a dataset of **9,744 images** with varying noise levels (6dB to 28dB) and trained a **YOLO** model for object detection.
- Investigated **layer freezing techniques** to improve detection accuracy, particularly for small objects in noisy conditions.
- Attained a **76.8% mAP@0.5** on the combined dataset and observed a **better performance for small objects** under high-noise conditions.
- Proposed optimization strategies to enhance model resilience in **low-SNR environments**, addressing challenges in real-world vision applications.

SKILLS

- **Programming Languages**: C / C++ , Python, JavaScript, HTML / CSS
- **Competent in**: Git,Github, ReactJ, NodeJS, ExpressJS
- **Languages**: English, Hindi(Native), Kannada.

ACHIEVEMENTS

- Solved **200+** problems on various competitive programming platforms, gaining experience in algorithms and problem-solving

PROJECT

- Developed an IA exam management system to automate student allocation to exam rooms, distribute the required number of papers, and assign faculty for invigilation. The system ensures fair seating, accurate paper distribution, and balanced faculty assignments.
- I created a machine learning model to detect healthy and stressed potato crops using image analysis. The system processes crop images, identifies key features, and classifies them based on health. Using deep learning, it helps farmers spot stressed crops early and take timely action.