Kartik Gupta

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EDUCATION

Thapar Institute of Engineering And Technology, Patiala, Punjab　　　2020 – Present
Bachelor's in Computer Engineering　　　*CGPA: 9.16/10*

Ryan International School, Chandigarh　　　2019 – 2020
12th, Non-Medical　　　*Percentage: 96/100*

EXPERIENCE

Research Intern　　　July 2022 – Aug 2022
Experential Learning Centre, TIET (Patiala)　　　*[Source Code](#)*
- Collaborated with a Multidisciplinary team to provide last mile delivery service using UAV's
- Implemented a Object Detection model using yolov7 for the UAV which was prototyped on ROS
- Also developed a Realtime Multiclass Gesture Recognition model to maneuver the UAV using MediaPipe Holistics and LSTM model with TensorFlow Framework

Student Representative　　　Aug 2022 – Present
Student Consultative Committee (SCC), TIET (Patiala)
- Proactive Student Representative in SCC, coordinating with esteemed faculty members, including Deans and HoD's
- Effectively addressed student issues and provided valuable feedback, demonstrating strong communication and problem-solving skills
- Played a pivotal role in advocating for student concerns, driving positive changes within the institution

PROJECTS

SpeechScan | *Python, Streamlit*　　　[Source Code](#)
- Developed a powerful Machine Learning model using TensorFlow and hosted it on Streamlit
- Leveraged LipNet technology to enable accurate lip reading of videos
- Enhances communication accessibility and opens up possibilities for speech analysis and recognition

Other Mini-Projects　　　[All Repositories](#)
- Developed and maintained a personal portfolio dynamic website for myself, utilizing HTML,CSS and Flask with custom Favicon and hosted it on Render　　[Source Code](#)
- Python script to simulate and analyze stock returns and comparing the volatility of individual stocks with the NASDAQ-100 index using Yahoo Finance API and also simulation of Bollinger Bands indicator trading strategy　　[Source Code](#)
- Instance Segmentation on Realtime video feed using Mask-RCNN and OpenCV with PixelLib Library and on a Custom Image data using Mask-RCNN to segment multiple instances of the same class.　　[Source Code](#)

ACHIEVEMENTS

- Scored a perfect 10 CGPA in the first semester at TIET, also currently a merit scholarship holder
- Secured the 3rd position in a team-based Political Analysis Event conducted by IIT Kanpur, competing against 1000+ students from 100 colleges
- Completed the E-Box coding platform offered by TIET for Computer Programming
- Completed the AWS Academy Fundamentals of Cloud Foundations Course

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, PLSQL,R, MATLAB,HTML,CSS
Developer Tools: Git, VS Code, Github, Google Collab, Linux, Replit
Technolgies: Machine Learning, Computer Vision, Deep Learning, Cloud
Libraries: Pandas, NumPy, TensorFlow, yfinance, Matplotlib, OpenCV
Hobbies and Interests: Weight Training, Professional Cricket, Scientific Documentaries, Public Policy, Finance