Juan Thomas

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Education

Delhi Technological University

New Delhi, India

- B.tech in Electronics and Communication – 6.81/10   2019-2023

St Paul's School

New Delhi, India

- AISSCE (Class XII) – 91.2%   2019

Academic Projects

Vehicle Semi-Automation

- Designed computer vision-based model to extract lanes from images, achieving speed of 66 frames per second.
- Enhanced image identification of YoloV3 by performing transfer learning, achieving confidence of 91%.
- Estimated single-frame vehicle distance at an accuracy of 90% for up to 5m from camera.

Sim Racing Wheel

- A steering wheel equipped with gyroscope and various buttons to mimic a F1 steering wheel
- Two Pedals as accelerator and brake
- Paddle shifters for changing gears and a hand clutch

Technical Skills

- Well experienced in Machine learning frameworks
- In-depth knowledge of NumPy, Pandas, matplotlib for data analytics
- Computer Vision
- Proficient in Python and C++
- Interfacing with Raspberry Pi and ESP boards to create IoT-based solutions
- Web Development with HTML, CSS and JavaScript ES6, NodeJS and ReactJS

Extra-curricular Activities

- Participated twice in School MUN.
- A team of 10 students, oversaw content and graphic design for Endeavor magazine
- Vice-captain of the school football team
- JGT (portfolio-react-tailwind-dun.vercel.app)