Paul Samuel W E

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Education

St John's Mat Hr Sec School — Chennai, IN
SSLC — *May 2020*

Vidhya Vikashni Mat Hr Sec School — Tiruppur, IN
HSC — *May 2022*

Kumaraguru College of Technology — Coimbatore, IN
Bachelor of Technology in Artificial Intelligence and Data Science — *Sep. 2022 – Present*

Experience

Winner of Crosscode, Yugam 24 - KCT — Feb. 2024
Kumaraguru College of Technology — *Coimbatore, IN*
- Showcased technical knowledge for cross-code event challenges and demonstrated strong problem-solving and algorithmic skills in competitive coding events

Participant of Kaggle Kombat, Yuktha 24 - PSG ITECH — Mar. 2024
PSG Institute of Technology and Applied Research — *Coimbatore, IN*
- Engaged in Kaggle based data science challenge, focusing on solving real-world problems. Collaborated with a team to develop predictive models, analyzing and interpreting data using Python
- Built an outperforming time series model using Recurrent Neural Networks (RNN), Bidirectional RNNs (BRNN), Long Short-Term Memory (LSTM) networks, and the FBProphet library

Workshop Organizer — May 2024
Kumaraguru College of Technology — *Coimbatore, IN*
- Organized and conducted a workshop - "Generative AI: Hands-on with Transformers" focused on Generative AI, providing hands-on experience with Transformer models.

Peer Mentor — Aug. 2024 - Present
Kumaraguru College of Technology — *Coimbatore, IN*
- Mentored peers on GitHub and Wix prototyping tools, helping them develop their technical and project management skills.
- Mentored peers on Jetson Nano developer kits, guiding them in leveraging the platform for AI projects, including object detection, enabling hands-on learning and collaboration in machine learning applications.

Projects

Video Dehazing | *Python, TensorFlow, CNNs, OpenCV, FFmpeg, Git, VSCode* — Sep. 2023
- Worked on dehazing video frames to enhance clarity under challenging conditions to aid fire rescue operations
- Utilized deep learning techniques, including Convolutional Neural Networks (CNNs), for image processing.
- Employed tools like OpenCV, FFmpeg to improve the quality of video frames.

AutoGrader | *YOLO, Roboflow, Ultralytics, Python, Streamlit, TensorFlow, Excel* — Mar. 2024
- Developed an OCR-based system to automate the grading of scanned answer scripts.
- Captured marks from scanned documents and automatically entered them into Excel for seamless processing.
- Utilized YOLO for object detection and OCR to recognize handwritten text.
- Streamlined the grading process, reducing manual effort and increasing efficiency.

Technical Skills

Languages: Python, R, SQL

Databases: MySQL
Frameworks: Streamlit, TensorFlow, Ultralytics
Developer Tools: Git, VS Code, Roboflow, Excel, Jetson nano developer kits.
Libraries: pandas, NumPy, Matplotlib, OpenCV, Keras, Gymnasium, Sci-kit Learn, YOLO