

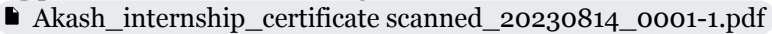
Professional Summary

I am a competent software development professional with experience in machine learning applications. Consistent in delivering clean, error-free, reliable code to meet current or expected needs. Well-versed in software trends and confident in multiple languages, frameworks and programming tools.

Experience

Proficient Vision Solutions Pvt. Ltd, IIT Kharagpur
Research Intern
Kharagpur

May 2023 to July 2023

- Sudipta Mukhopadhyay (Associate Professor in the Electrical and Electrical Communication Engineering, IIT Kharagpur)
- Technologies used - **OpenCV , PyTorch , CUDA**
- Image Processing with OpenCV
- Cleaning and processing data for training Deep Learning models
- Fine tuning deep-learning object detection models (**YOLO-NAS , YOLO-V8**)
- Benchmarking performance of different object detection model
- Certificate: 

Core Qualifications

1. Machine Learning (Frameworks - PyTorch , scikit-learn)

2. NLP- spaCy

3. Data Analysis - (Pandas,Numpy)

4. Languages -C/ C++ , Python, Dart,SQL,Javascript,JAVA

5. Backend (Frameworks- FastAPI , Flask)
6. Android Development (Dart , Flutter , fast API ,Firebase, Flask)

7. UI Frameworks (Streamlit, Gradio ,Flutter)

8. Computer Vision - OpenCV MediaPipe

9. Other Technologies - TensorRT , CUDA , LangChain , Vector Databases

Education

Indian Institute of Information Technology Kalyani
B. Tech
Kalyani
GPA: 8.9

Current

Accomplishments

- **Tutorme API -**
- This project is an advanced AI question answer chat-bot that uses
- Flask, PinconeDB, TensorFlow, and OpenAI
- We extract text from the PDF into chunks, vectorized them and embed the text chunks in a vector database
- When a question is asked we find the most relevant text chunk as a query
- Lastly, we send the text as context to a LLM and ask relevant questions from the chunk
- <https://github.com/AkashParua/tutorme>
- **FindPic -**
- This project is an image search app that uses a vector database
- The system allows users to search for images by similarity in embedded vectors
- Uses PinconeDB , Fast API , Streamlit
- <https://github.com/AkashParua/FindPic>
- **miniVANET -**
- A simple mobile app that sends message to the nearest hospital if panic mode is triggered
- Uses Flutter , Firebase
- <https://github.com/AkashParua/FindPic>
- **HAL4500 -**
- Adding YOLO-V8 object detection to Lang-Chain agents
- Uses MediaPipe for gesture detection
- The app can respond to queries such as – “What am I holding?” , “What am I pointing at ?”
- <https://github.com/AkashParua/hal4500.git>
- **Accomplishments -**
- Shortlisted for the Final round of Election 2023 as for Team "Hacking Commission"
- Qualified for Embedded Security CTF (National CoE Indian Institute of Technology, Madras)
- **Contact -**
- **Linked in :** <https://www.linkedin.com/in/akash-parua-76b2531b7/>
- **GitHub:** <https://github.com/AkashParua>