SHUVANKAR DHARA

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EDUCATION

Techno Main Salt Lake Kolkata, West Bengal

Bachelor Of Technology Computer Science and Technology (AI ML); GPA: 7.7 Sept 2023- Jun 2026

The Calcutta Technical School Kolkata, West Bengal

Diploma Engineering in Computer Science and Technology; CGPA: 8.9

SKILLS

Languages: Python, Java, C, SQL, CSS Frameworks: Flask, Tensorflow ,Pytorch

Platforms: Jupyter Notebook, Pycharm professional, Visual Studio Code, Github, Kaggle, Hugging-Face

Tools: MongoDB, Firebase, Streamlit Libraries: pandas, NumPy, scikit-learn **Spoken Languages:** English, Hindi, Bengali

PROJECTS

GAN-based Image Colorization Model (Link)

Aug 2024- Sep 2024

- Implemented a Deep learning model, GAN (Generative Adversarial Network) using a U-Net architecture for the generator and a discriminator to colorize grayscale SAR images.
- Achieved 90% accuracy on 1000 test images with the model trained over 300 epochs.
- Utilized TensorFlow to build and optimize the model, the generator and discriminator, and loss functions to enhance colorization performance, improving inference speed by 20%.
- Resolved challenges like axis misalignment during convolutional operations and improved generator stability across training cycles 30%.

Home Automation (Link)

Aug 2022- Jun 2023

- Developed a home automation system controlling 3 fans, 5 lights, and 2 other appliances using Arduino Uno R3 and ESP-01
- Synchronized the system with a mobile app (RemoteXYZ) for real-time control, achieving 100% wireless connectivity using the Wi-Fi communication protocol.
- Overcame challenges in establishing seamless communication between Arduino and ESP-01, reducing connectivity downtime by 30%.

Invoice Processing with Generative AI (Link)

Mar 2024 - April 2024

- Spearheaded the development of a cutting-edge Streamlit tool that embodied Google Generative AI's Gemini-Pro-Vision model API 2x faster.
- Allowing users to input prompts and invoice images for streamlined information extraction, leading to a 50% increase in accuracy.

Q&A ChatBot with Generative AI (Link)

Jan 2024 – Feb 2024

- Built a real-time Q&A chatbot using Streamlit and Google Gemini Pro API, handling 100+ user queries with 90% response accuracy.
- Integrated session-based chat history and optimized response time to under 2 seconds per query.
- Secured API key management using environment variables for scalable deployment.

EXPERIENCE

AI/ML Virtual Internship India: Edu Program with Google Developers (Link)

April 2024 – Jun 2024

- Completed a 10-week AI-ML Virtual Internship, gaining hands-on experience with AI and machine learning tools.
- Collaborated on projects under the guidance of experts from NEAT, AICTE, and EduSkills.
- Developed an object detection model inspired by Google Lens, improving object recognition accuracy by 10-15% through the implementation of CNN-based architectures.

CREDENTIALS

- Solved around 150+ coding questions in <u>Leetcode</u>
- Participated in the Google Developer Groups Workshop at Kshitij 2024, IIT Kharagpur, and gained real-world experience with Google developer tools and technologies.
- Earned certificates from <u>Udemy</u>, <u>GreatLearning</u> and <u>Ec-Council</u>.

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Jun 2020- Jun 2023