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 — September 2023- 2026

The Calcutta Technical School — Kolkata, West Bengal
Diploma Engineering in Computer Science and Technology; CGPA: 8.9 — June 2020- June 2023

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
Spoken Languages: English , Hindi , Bengali (Native)

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.
- Acquired skills in machine learning algorithms, data analysis, and AI model development.

PROJECTS

GAN-based Image Colorization Model(Link) — Aug 2024- Sep 2024

- Implemented a 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.
- Optimized the generator and discriminator loss functions to enhance colorization performance.
- Tackled challenges like axis misalignment during convolutional operations and improved generator stability across training cycles.

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 module.
- Integrated 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

- Led the creation of a cutting-edge Streamlit tool that embodied Google Generative AI's Gemini-Pro-Vision model.
- 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.

CREDENTIALS

- Solved around 150+ coding questions in Leetcode
- Participated in the Google Developer Groups Workshop at Kshitij 2024, IIT Kharagpur, gaining hands-on experience with Google developer tools and technologies.
- Earned certificates from Udemy, GreatLearning and Ec-Council.