

GLEVIN ROCHE

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AI Innovator | Data Science Enthusiast | Future-Ready Technologist

Passionate about crafting AI-driven solutions for real-world impact, I specialize in machine learning, computer vision, and automation. With expertise in fraud detection, AI-powered tools, and scalable tech, I excel at transforming ideas into cutting-edge innovations.

Education

Alva's Institute of Engineering and Technology

Bachelor of Engineering in Artificial Intelligence and Machine Learning

PUC: Little Rock Indian School, Brahmavara

Nov 2021 – Apr 2025

Moodabidire, Karnataka

June 2019-Apr 2021

Technical Skills

Programming	: Python, C
Developer Tools & IDEs	: VS Code, Jupyter Notebook
AI & ML Frameworks	: TensorFlow, OpenCV, Scikit-Learn, Numpy, Pandas, PyTorch, Keras, LangChain
Domains	: AI & ML, Deep Learning, Computer Vision, Data Science, Prompt Engineering
AI-Enhanced UI/UX Design	: AI-driven interfaces, Adaptive design, Smart Interaction
Data Analytics	: Matplotlib, Seaborn, Exploratory Data Analysis (EDA), Data Cleaning & Visualization

Projects & Experience

AI-Powered YouTube Video Summarizer & Q&A

Feb 2025

- Developed an **AI-powered video summarization and Q&A system** using **Gemini 1.5 Pro, LangChain, FAISS, and Whisper AI**, enabling **accurate multilingual transcription, NLP-driven question answering, and efficient large-scale video processing** in a responsive Streamlit UI.

Credit card fraud detection using Facial recognition

May 2024 – July 2024

- Developed a **credit card fraud detection system** combining **facial recognition** with **traditional fraud detection**, achieving **85% accuracy** in real-time user verification and reducing **unauthorized access by 60%**.
- Built a **multi-layered fraud detection system** using **Python, OpenCV, and machine learning**, featuring **automatic card blocking, email alerts for failed attempts, and ensemble models** to enhance **detection accuracy and adaptability** against evolving fraud tactic. This project can be scaled for secure government transactions.

Multi-Purpose AI Toolkit

Nov 2024 – Jan 2025

- AI-powered productivity suite** – Developed a unified platform integrating **AI image generation, an advanced chatbot capable of processing image & pdf inputs, NLP tools like speech-to-text & text-to-speech, and real-time language translation**, enabling seamless content creation and accessibility for diverse users.
- Comprehensive utility tools** – Implemented essential features like a **QR code generator, paragraph analyzer, typing speed test, and more**, offering **real-time, offline-supported, and customizable** solutions for students, educators, content creators, and businesses to enhance efficiency and workflow.

Salesforce Virtual Internship

Nov 2023 – Dec 2023

- Customized **Salesforce CRM** to optimize workflows, boosting client management and increasing user efficiency by **20%**.

Data Analytics & Visualization Experience

March 2025

- Completed virtual internships with **Deloitte Australia, TCS, and Accenture North America**, leveraging **Tableau, Power BI, and Excel** for **data analysis, visualization, and reporting**. Gained expertise in **data cleaning, EDA, dashboard creation, KPI tracking, and business insights**, enhancing **problem-solving and decision-making** skills.

Leadership / Achievements

Fusion Techathon-Hackathon Organizer

Alva's Engineering College, 2023 & 2024

- Spearheaded a high-impact AI, ML, and IoT hackathon with 400+ participants, forging strategic industry partnerships and elevating Alva's Engineering College's technical reputation through innovation, leadership, and strategic execution.

Python Prayana Initiative - Group Leader

Alva's Engineering College, 2024

- Led the **Python Prayana** initiative, equipping 700+ rural students with Python skills and boosting coding proficiency by 40%, while spearheading workshops and mentorship programs that enhanced project capabilities and engagement by 30% through strategic planning and hands-on guidance.

NPTEL Certifications (Elite Badge)

2023-24

1) Problem Solving through Programming in C 2) Cloud Computing 3) Data Mining 4) Python For Data Science