

Abhiraj Gautam

Portfolio: Abhirajgautam.com

Github: [Abhirajgautam28](https://github.com/Abhirajgautam28)

Leetcode: [Abhirajgautam28](https://leetcode.com/Abhirajgautam28)

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EDUCATION

- **Graphic Era University.** *Dehradun, India*
Bachelor of Technology: Computer Science and Technology with ML & AI. (CGPA: 7.82) Sep 2021 - Jul 2024
- **G.H Rasoni Institute of Engineering & Technology.** *Nagpur, India*
Diploma: Computer Engineering. (Percentage: 88.29%) Jul 2018 - Aug 2021

SKILLS SUMMARY

- **Languages:** Shell Scripting, C++, Python, SQL, Prolog, GoLang.
- **Tools:** Git, Jenkins, Selenium, Docker, Power BI, VertexAI, \LaTeX .
- **Libraries:** Tensorflow, Keras, SciPy, Theano, Pytorch, Scikit-learn, Flask, Seaborn.
- **Platforms:** Linux Distributions, M S Windows, AWS, Tableau, Google Colab, Kaggle.
- **Development:** Artificial Intelligence, Neural Networks, Computer Vision, Generative Networks.

EXPERIENCE

- **Excain LLP - Summer Internship** *Remote*
Ai Developer (Full-time) May 2023 - Jul 2023
 - Summary: Developed a machine learning model integrated into the mobile app architecture; facilitated **24/7** user access while ensuring data privacy compliance with industry standards and achieving over **10,000** successful user logins within two weeks.
 - Languages & Platforms: **Python, mySQL, Pycharm & Amazon Web Services (AWS).**

PROJECTS

- **Masked Face Detection & Reconstruction For Identity Verification.** *Git-Hub Link* Jun 2024
 - Implemented **MTCNN** for face extraction, **ESRGAN** for feature extraction, and **Sequential API** for gender classification achieving **94.5%** accuracy. **YOLOv10** for mask segmentation with **92.3%** accuracy. Landmark detection via **MediaPipe**. **Pix2Pix** for realistic facial feature generation, achieving **82%** accuracy.
- **CycleGAN for Synthetic Image Data.** *Git-Hub Link* Oct 2024
 - Implemented CycleGAN (**CGAN**) to generate synthetic image data. It transforms images from one domain to another. The generated data complement the original dataset for training, testing, and validation in various projects, enhancing the model's performance.
- **Chatraj AI-Powered Chatbot with Project Management.** *Git-Hub Link* Feb 2025
 - Developed a full-stack **AI chatbot** with project management, real-time chat, and code generation/execution. Integrated Gemini-2.0-flash (**@Chatraj**) for text and code generation. Implemented in-browser code execution via **WebContainer**. Built with **React, Tailwind CSS, JavaScript, MongoDB, and Redis.**

PATENTS & PUBLICATIONS

- **A System & Method For Logic Operations In Healthcare Appliances.** *Link* Jan 2025
 - This innovation is published under application number **202411103834**, awaiting the grant of the patent by the Ministry of Commerce and Industry, Government of India.
- **Connecting the Future: Cloud-Based IoT in Education.** *Link* Dec 2024
 - This chapter appears as Chapter 15 in the first edition of **Integration of Cloud Computing and IoT: Trends, Case Studies, and Applications**, published by Chapman & Hall, a CRC Press imprint, New York, United States of America.
- **Artificial Narrow Intelligence Inspired Neuromorphic Computing for Logic Operations in Healthcare Appliances.** *IEEE Xplore Link* Aug 2024
 - This paper was showcased at the 7th International Conference on Circuit Power and Computing Technologies (**ICCPCT**) at Baseliros Mathews II College of Engineering, Kollam, Kerala, India.

ACHIEVEMENTS

- **Google:** Cloud Certified Professional Data Engineer. (May 2024) *Link*
- **Salesforce:** Tableau Desktop Specialist. (Nov 2023) *Link*
- **Tensorflow:** Developer Certificate. (Jun 2023) *Link*
- **AWS:** Solutions Architect - Associate. (Feb 2023) *Link*
- **Microsoft Certified:** Azure AI Fundamentals. (Apr 2022) *Link*
- **MTA :** Security Fundamentals. (Feb 2020) *Link*
- **Leetcode :** Maintaining the streak of **800+** days.