

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: 7.72) Sep 2021 - Jul 2024
- **G.H Rasoni Institute of Engineering & Technology.** *Nagpur, India*
Diploma: Computer Engineering. (CGPA: 9.30) Jul 2018 - Aug 2021

SKILLS SUMMARY

- **Languages:** Shell Scripting, Python, Java, SQL, Prolog, GoLang.
- **Tools:** Git, Jenkins, Selenium, Docker, Kubernetes, VertexAI, L^AT_EX.
- **Libraries:** Tensorflow, Keras, SciPy, Theano, Pytorch, Scikit-learn, Flask, Seaborn.
- **Development:** Artificial Intelligence, Neural Networks, Computer Vision, Generative Networks.
- **Platforms:** Linux Distributions, M S Windows, AWS, Tableau, Google Colab, Kaggle, Azure.

EXPERIENCE

- **Excain LLP - Summer Internship** *Remote*
Ai Developer (Full-time) May 2023 - Jul 2023
 - Summary: Spearheaded the end-to-end development of an AI-based model of an Android application, enabling seamless access to health records, secure storage of medical information, and personalized reminders, resulting in improved health outcomes.
 - Languages: **Python.**
 - Platforms: **Pycharm & Amazon Web Services (AWS).**

PROJECTS

- **Masked Face Detection & Reconstruction For Identity Verification.** *Git-Hub Link* May 2024
 - Implemented **MTCNN** for face extraction, **ESRGAN** for feature extraction, and **Sequential API** for gender classification achieving **94.5%** accuracy. **YOLOv9** 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* Feb 2024
 - We implemented **CycleGAN (CGAN)** to generate synthetic image data. It transforms images from one domain to another. The generated data complements the original dataset for training, testing, and validation in various projects, enhancing model performance.
- **Custom LLM Development via LSTM for Text Generation.** *Git-Hub Link* Nov 2023
 - We developed a text generation model using **LSTM**(Long Short-Term Memory) neural networks Trained on a dataset of news headlines, the model predicts the next word given a sequence of words. By utilizing tokenization and padding techniques, it learns patterns in the text data. This model can generate coherent headlines based on provided seed text, aiding in tasks like content generation and summarization.

PUBLICATIONS

- **Open AI based Differential Gain Model of Information Sharing in Industry 5.0 Health Sector.** *IEEE Xplore Link* Oct 2023
 - This paper was showcased at the 4th Global Conference for Advancement in Technology (**GCAT 2023**), held at Nagarjuna College Of Engineering and Technology, Bangalore, Karnataka, India.
- **Evaluation of 5% Known And 95% Unknown Matter in Inner and Outer Universe Using Quantum Computing, Artificial Intelligence, and Vedic Scripture.** *IEEE Xplore Link* Dec 2023
 - This paper was showcased at the International Conference on Energy, Materials and Communication Engineering (**ICEMCE-2023**), held at Thiagarajar College of Engineering, Madurai, Tamil Nadu, 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 **500+** days.