

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. (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* 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* Feb 2024
 - 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
 - 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. It learns patterns in the text data by utilizing tokenization and padding techniques. This model can generate coherent headlines based on provided seed text, aiding in content generation and summarization tasks.

PUBLICATIONS

- **Artificial Narrow Intelligence Inspired Neuromorphic Computing for Logic Operations in Healthcare Appliances.** *IEEE Xplore Link* Oct 2023
 - This paper was showcased at the 7th International Conference on Circuit Power and Computing Technologies (**ICCPCT**), held at Baseliros Mathews II College of Engineering, Kerala, 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, 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 **620+** days.