

Abhiraj Gautam

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EDUCATION

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

SKILLS SUMMARY

- **Languages:** Python, SQL, Java, Shell Scripting, Prolog.
- **Tools:** Git, Jenkins, Docker, Tableau & Power BI, AWS & GCP, L^AT_EX.
- **Libraries:** Tensorflow, Keras, SciPy, Numpy, Pandas, OpenCV, Pytorch, Scikit-learn, Seaborn.
- **Course Work:** Data Structures and Algorithms (DSA), Object Oriented Programming (OOP), Database Management Systems (DBMS), Computer Networks (CN), Operating Systems (OS).

WORK EXPERIENCE

- **360 digiTMG** *Bengaluru, India*
Data Science Trainee September 2024 - Present
 - Gained hands-on experience in **Python, SQL, Exploratory Data Analysis (EDA), Power BI, Machine Learning, Deep Learning, and Artificial Intelligence**, applying these skills in real-time projects that enhanced **data quality by 18%**.
 - Conducted comprehensive **EDA and predictive modeling** on live industry datasets, resolving data inconsistencies, optimizing pipelines, and improving overall **data processing efficiency by 20%**.
 - Designed interactive **Power BI dashboards** and implemented **multi-model machine learning and computer vision solutions**, delivering actionable insights and accelerating decision-making speed by **25%**.
- **Excain LLP - Summer Internship** *Remote*
Ai Developer Intern May 2023 - July 2023
 - Built a scalable computer vision-based AI model with **92%** accuracy, integrated with an Android app to scan medicines, log routines in a cloud database, and send automated reminders, supporting **500+** users and **1500+** daily notifications during testing.

PROJECTS

- **Masked Face Detection & Reconstruction For Identity Verification.** *Git-Hub Link* June 2024
 - Developed an **AI-powered system** for **Masked Face Detection and Regeneration** to enhance **identity verification** by reconstructing hidden facial features, significantly improving security and compliance.
 - Implemented **MTCNN** for face extraction, **ESRGAN** for feature extraction, and **Sequential API** for gender classification achieving **94.5%** accuracy. Utilized **YOLOv10** for mask segmentation with **92.3%** accuracy. Performed landmark detection via **MediaPipe**. Employed **Pix2Pix** for realistic facial feature generation, achieving **82%** accuracy.
- **Chatraj AI-Powered Chatbot with Project Management.** *Live Link Git-Hub Link* August 2025
 - Achieved a **100 (RES)** by delivering **ChatRaj**, a **MERN-Stack** AI collaboration platform with real-time multi-user editing, chat, and live AI assistance via **WebContainer, Socket.io, and Gemini-2.5-Pro AI**.
 - Enhanced platform extensibility and efficiency by leveraging a comprehensive tech stack - **React, Tailwind CSS, JavaScript, Node.js + Express, MongoDB Atlas, Redis**, multilingual UI, and AI integration.
 - Improved user experience and performance - delivering **Lighthouse Performance 86, Accessibility 88, FCP 1.4s, LCP 1.8s, CLS 0, TTFB 0.34s**—by optimizing bundle size, caching, rendering pipeline, and securing with **JWT + 2FA + reCAPTCHA**.

PATENT & PUBLICATIONS

- **A System & Method For Logic Operations In Healthcare Appliances.** *Link* January 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* December 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.

ACHIEVEMENTS

- **Google:** Cloud Certified Professional Data Engineer.(May 2024) *Link*
- **Salesforce:** Tableau Desktop Specialist. (November 2023) *Link*
- **Tensorflow:** Developer Certificate. (June 2023) *Link*
- **AWS:** Solutions Architect - Associate. (February 2023) *Link*
- **Microsoft Certified:** Azure AI Fundamentals. (April 2022) *Link*
- **MTA :** Security Fundamentals. (February 2020) *Link*
- **Leetcode :** Maintaining the streak of **1000+** days.