

## Abhiraj Gautam

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### ACADEMIC DETAILS

Year	Degree/Exam	Institute	GPA/Marks(%)
Aug, 2021 - Present	B.Tech in CST with ML & AI	Graphic Era (Deemed to be) University	7.72 / 10.00
Jul, 2018 - Aug, 2021	Diploma in CSE	G.H Rasoni Polytechnic	9.30 / 9.50
Apr, 2018	C.B.S.E	St. Xavier's Jr. Sr. School	66.80 %

### INTERNSHIP

- **Software Developer, Excain LLP (May 2023 - July 2023)** : Spearheaded the end-to-end development of an Android application, enabling seamless access to health records, secure storage of medical information, and personalized reminders, resulting in improved health outcomes.

### PROJECTS

- **Masked Face Detection & Reconstruction For Identity Verification (Sept 2023 - Apr 2024)** : We 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.
- **Text Generation Using LSTMs (Jul 2023 - Sept 2024)** : We trained a Text Generation model using LSTM neural networks, on a dataset of news headlines. 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.
- **CycleGAN for Synthetic Image Data (Apr 2023 - Jun 2023)** : We implemented the CGAN to generate synthetic image data, transforming images from one domain (e.g., unhealthy cassava leaves) to another (e.g., healthy leaves). The generated data augment the original dataset, enriching the diversity of training examples for improved model generalization.

### PUBLICATIONS

- **Evaluation of 5% Known And 95% Unknown Matter in Inner and Outer Universe Using Quantum Computing, Artificial Intelligence, and Vedic Scripture.** *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.
- **Open AI-based Differential Gain Model of Information Sharing in Industry 5.0 Health Sector.** *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.

### TECHNICAL SKILLS

- **Languages:** Shell Scripting, Python, Java, SQL, Prolog, Html, PHP.
- **Development Tools:** Git, Jenkins, Selenium, Docker, Kubernetes, Tensorflow, Pytorch, Scikit-learn,  $\LaTeX$ .
- **Platforms:** Linux Distributions, Android Studio, AWS, Tableau, Git-Hub, Google Colab, Kaggle, Azure.
- **Course Work:** Computer Networks (CN), Operating Systems (OS), Data Structures and Algorithms (DSA), Object Oriented Programming (OOP), Database Management Systems (DBMS).

### SCHOLASTIC ACHIEVEMENTS

- **Salesforce** : Tableau Desktop Specialist. (Nov 2023)
- **Tensorflow** : Developer Certificate. (Jun 2023)
- **AWS** : Solutions Architect - Associate. (Feb 2023)
- **Microsoft Certified** : Azure AI Fundamentals. (Apr 2022)
- **MTA** : Security Fundamentals. (Feb 2020)
- **Leetcode** : Maintaining the streak of **500+** days.