



Ghanshyam Gadekar

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Phone: +91-7620693209

Date of Birth: 27-09-2002

Education:

Bachelor of Engineering in Computer Science and Engineering (AI & ML)

Smt. Indira Gandhi College of Engineering | University of Mumbai

Graduation: May 2024

SKILLS:

Programming Languages: Python, C/C++

Database Management: SQL, MongoDB

Communication: Strong ability to explain technical concepts to non-technical users, technical writing

Cloud Services: Proficient in AWS, including SageMaker and other AWS services

Machine Learning Frameworks: PyTorch, Keras, SciKit-Learn

Deep Learning: CNNs, RNNs, GANs

Computer Vision: Image classification, object detection & segmentation using OpenCV

Natural Language Processing: Text classification, summarization, sentiment analysis

Monitoring and Performance Optimization: Identifying and addressing performance issues

MLOps: Proficient with Docker for deploying and managing applications

Language Proficiency: English-IELTS (Band 7, 2024)

Experience:

Python Intern | ElSystems:

January 2024 – March 2024

- Completed an internship focusing on Python development.
- Gained experience in developing and deploying Python applications.
- Worked on maintaining and enhancing Python-based projects.

AI Developer | Cognitain AI:

August 2024 – February 2025 | Miami, FL (Remote)

- **Impactful Contributions:** Achieved notable impact within a short time by integrating innovative AI/ML models, including RAG (Retrieval-Augmented Generation) and LLM-based solutions.
- **Technical Expertise:** Applied skills in AI, machine learning, software development, and data analysis to solve complex challenges and optimise performance.
- **Collaborative Team Player:** Fostered an open communication environment, sharing knowledge and supporting colleagues, which enhanced team dynamics.
- **Proactive Leadership:** Took initiative in managing critical responsibilities, contributing directly to company growth by meeting deadlines and exceeding expectations.

Publications:

"Secure Cloud Storage Using Hybrid Cryptography"

International Research Journal of Innovations in Engineering and Technology (IRJET),
Volume 7, Issue 5, May 2023, pp. 351–356.

Authors: Ghanshyam Gadekar, Shruti Kambli, Poorva Padve, Poorva Patil.

"Smart Automations Using LLMs"

International Research Journal of Innovations in Engineering and Technology (IRJET),
Volume 7, Issue 11, November 2023, pp. 603–610.

Authors: Ghanshyam Gadekar, Priya Ethape, Riya Kane, Sahil Chimane.

Academic Projects:

General Computer Automation using LLMs:

Developed an automation system using **Large Language Models (LLMs)** to interpret and process user commands in natural language. The system determined the appropriate execution steps, streamlining various computer tasks like opening applications, managing files, and automating emails.

Outcome: Achieved seamless task automation, improving efficiency and reducing manual work.

Skills: NLP, Machine Learning, LLMs, GenAI

Motion Browsing:

Designed and implemented a **motion detection-based browsing system** using **OpenCV** to allow web browsing through hand gestures. The system captured and recognized gestures such as swipes and clicks, offering a hands-free browsing experience.

Outcome: Provided an accessible browsing interface and demonstrated high accuracy in gesture recognition.

Skills: Computer Vision, Motion Detection, OpenCV

Hybrid Cryptography Storage:

Engineered a secure **hybrid cryptography system** to encrypt and decrypt files on cloud platforms, ensuring data privacy. Used a combination of symmetric and asymmetric encryption techniques. Integrated with **Nginx** for optimised storage and retrieval processes.

Outcome: Delivered a robust, scalable solution for secure file management on the cloud.

Skills: Cryptography, Cloud Storage, Nginx

Image Classification using Transfer Learning:

Developed an **image classification model** using **transfer learning** and **Convolutional Neural Networks (CNNs)** to categorise images into various classes efficiently. Fine-tuned a pre-trained model to improve classification accuracy on a custom dataset.

Outcome: Achieved high classification accuracy with reduced training time, thanks to transfer learning.

Skills: PyTorch, Transfer Learning, CNNs, Image Classification

ExtraCurricular Activity:

Cultural Event Host | National Assessment and Accreditation Council (NAAC) Visit

January 2023

- Actively engaged with the audience at cultural event during the NAAC visit to showcase college talent and foster community spirit.