

# Amit Paul

📍 Kolkata, West Bengal

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## Experience

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### Project Intern – CDAC, Kolkata

Feb 2024 – Aug

- Developed an easy-to-use forensic GUI, cutting image forgery detection time by 45% and making the workflow more efficient.
- Integrated SIFT, ORB, Lowe's ratio, DBSCAN, and DFT, increasing detection accuracy by 30% and reducing false positives.
- Implemented real-time visualization of forged areas, boosting team productivity by 25% with quicker result interpretation.
- Reduced validation effort by 40% by generating a diverse dataset of manipulated images. This ensured strong testing and higher reliability of the forensic tool.
- Increased research usability and adoption by delivering a visual, accessible tool that colleagues could use without needing deep technical expertise. This encouraged collaboration across teams.

## Projects

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### Attendance System — Image Analysis Based

- I began an automated attendance system using facial recognition from group images to mark attendance efficiently to reduce human error. This project involved problem-solving, requirement analysis and managing time effectively.
- It delivered an automated system that accurately marks attendance from group photos, analyze the data and make a table.
- Tools used: Python, OpenCV, TensorFlow, Flask, HTML, CSS.

### Interactive Quiz Game — Python & JSON

- I started building an engaging platform to test knowledge. This project required creativity, debugging and rapid prototyping.
- This Interactive Quiz Game asks multiple-choice questions and shows the final score at the end.
- The questions are loaded from a JSON file and it can be easily extended by modifying the file.
- Tools used: Python, Json, Flask, HTML.

### Service Buddy — Customer Service Chatbot

- I Started to apply NLP for customer support. This involved designing communication, understanding users and working together.
- This project is a Customer Service Chatbot designed to assist users by providing product information, answering common queries about orders, shipping, payment methods and troubleshooting issues through natural language interaction.
- Tools used: Python, NLTK, JSON, Flask, HTML, CSS.

### Cricket Analyzer — Python GUI Application

- This project is a GUI-based application that helps users calculate cricket run rates and perform other mathematical operations(including DLS method) . By entering details like runs scored or overs played, users can easily get accurate results in a simple and intuitive interface
- I Started to simplify cricket run rate and D/L calculations. This required logical thinking, user-focused design and handling feedback.
- Tools used: Python, Tkinter, Numpy.

### Image Analyzer — Advanced Image Processing GUI

- This project is an advanced Image Analyzer GUI that performs image processing, quality assessment, metadata extraction, and forgery detection using algorithms like SIFT, ORB, DCT.
- This GUI tools involved research collaboration, precision, and documentation.
- Tools used: Python, PyQt, SIFT, ORB, DCT.

## Skills

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### Technical Skills

Python, Java, HTML5, CSS3, JavaScript, SQL, OpenCV, NLTK, JSON Flask, Tkinter, PyQt  
MS Word, Excel, PowerPoint, Git/GitHub

**Managerial Skills**

Time Management, Project Management, Communication Skills

**Language**

English, Bengali, Hindi

**Education**

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**Techno Engineering College Banipur**

Bachelor of Technology, CSE, CGPA: 8.38

2021 - 2025

**Banipur Baniniketan High School (H.S.)**

Higher Secondary, Percentage: 88.2

Secondary, Percentage: 85.2

2013 - 2021

**Certification**

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|---|----------|
| • Big Query for Data Analyst (Google)           | 2025     |
| • Introduction to Artificial Intelligence [IBM] | Apr 2025 |
| • Crash Course on Python (Coursera)             | Oct 2023 |
| • Enhancing Soft Skills and Personality (NPTEL) | May 2022 |
| • Ethics in Engineering Practice (NPTEL)        | May 2022 |

**Research Paper**

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**Early Detection of Breast Cancer Using Logistic Regression Method (Python)**

focuses on predicting breast cancer at an early stage to reduce mortality rates among women in India, where it accounts for about 14% of all cancers. Using the Wisconsin Diagnostic Breast Cancer dataset, we applied the Logistic Regression algorithm along with 10-fold cross-validation and various train-test splits. The model achieved high performance with accuracies up to 96% and was evaluated using metrics such as accuracy, sensitivity, specificity. Published from International Journal of Engineering Technology and Management Science

**Website:** [ijetms.in](http://ijetms.in)