



Bachelor of Technology  
in Computer Science and Engineering  
Institute of Engineering and Management, Kolkata

paulaniket220502@gmail.com

Leetcode

LinkedIn

GitHub

Codechef

## EDUCATION

Degree	Institute	Board / University	CGPA/Percentage	Year
B.Tech CSE	Institute of Engineering and Management, Kolkata	MAKAUT	9.51	2021-2025
Class XII	Adamas International School	ISC	90.6%	2021
Class X	Adamas International School	ICSE	86.66%	2019

## EXPERIENCE

- IEM R&D** June 2023 - Nov 2023  
*Machine Learning Intern* Kolkata
  - Developed and deployed a robust handwritten signature authentication system using Siamese networks and VGG16 ensemble learning techniques on AWS cloud, achieving 99.57% accuracy through extensive data augmentation and hyperparameter tuning..
  - Gained practical experience in deep learning and machine learning techniques, enhancing skills in model building and performance optimization.

## PROJECTS

- Signature Recognition Using Ensemble Learning** Mar 2021 - Apr 2021  
*Software Engineering* GitHub
  - Implemented pre-processing steps including normalization and segmentation to improve the quality of input data.
  - Conducted thorough evaluation and validation of the model using various datasets to ensure its reliability and robustness in real-world scenarios.
  - Conducted thorough evaluation and validation of the model using various datasets to ensure its reliability and robustness in real-world scenarios.
- Video Sureveillance** Jun 2023 - Nov 2023  
*Software Engineering* GitHub
  - Designed and implemented a secure federated learning framework for video surveillance, enabling decentralized data processing across multiple devices while maintaining data privacy.
  - Optimized model performance through aggregation algorithms, ensuring accurate real-time object detection and anomaly identification.
  - Addressed challenges in data heterogeneity and communication efficiency using adaptive learning techniques and model compression strategies.

## TECHNICAL SKILLS

- Programming Languages:** JAVA, C/C++, Python
- Tools and Frameworks:** Jupyter, Tensorflow, sklearn, ReactJs, Node.js, Flask, Git, Linux
- Coursework:** Data Structures and Algorithms, Operating Systems, Database Management Systems, Computer Networks, Object-Oriented Programming, Software Engineering, Machine Learning

## PUBLICATIONS

- Signature Recognition System Using Ensemble Learning:** Published in First International Conference on Advanced Computing and Systems.
- A Review on the Minimization of Energy Consumption in Blockchain Technology** Published in 8TH INTERNATIONAL CONFERENCE ON ELECTRONICS, MATERIALS ENGINEERING & NANO-TECHNOLOGY

## CERTIFICATIONS

- AWS Cloud Practitioner** Amazon, Coursera
- Programming in JAVA** IIT Kharagpur
- Introduction to Machine Learning** IBM, Coursera
- Introduction to DBMS** IIT Kharagpur

## ACHIEVEMENTS

- Rank 2 achieved in my department: Awarded rank 2 holder in my department
- Flipkart Grid Reached towards the last stage of the competition
- Solved over 1000 problems across all platforms In top 5% in LeetCode, LeetCode Knight
- Reached a max rating of 1732 in Codechef