



# ARKADIP GHOSH

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 @arkadip-ghosh |  /arkadip-ghosh

## SKILLS

- **Programming Languages:** C, C++, Java, Python, JavaScript
- **Web Development:** React.js, Flask, Node.js, Laravel
- **Cloud & DevOps:** Docker, Kubernetes
- **Databases:** MySQL, MongoDB, PostgreSQL, Redis
- **Tools & Technologies:** Git, Elasticsearch, Nmap, Wireshark, Stripe API, JWT Spring, Hibernate, Web Services (RESTful, SOAP), AWS, Unix/Linux
- **Data Structures & Algorithms:** Arrays, linked lists, trees, graphs, dynamic programming, sorting, searching
- **Software Design:** Object-Oriented Design (OOP), Design Patterns (Singleton, Observer, MVC)

## WORK EXPERIENCE

### AIML Intern | Infosys

May 2024 – Jul 2024

- Developed a scalable hate speech detection system using BERT, TensorFlow, and PyTorch, achieving 77% accuracy.
- Optimized data preprocessing with Scikit-learn, leveraging machine learning and natural language processing techniques.
- Enhanced backend performance and integrated with distributed systems, reducing downtime by 30% also worked in Unix/Linux environments to ensure system-wide scalability.

## EDUCATION

- **B.Tech - Information Technology** (Now attending) Jul 2021 - Jul 2025  
Govt College of Engineering & Textile Technology, Serampore CGPA : 8.13(present)
- **XII - Science** Jun 2018 - Jun 2019  
Jadavpur Vidyapith, Kolkata 80.06%

## PROJECT WORK

- **Real-Time Ticket Booking App (2024):** Built a scalable real-time ticket booking android application using React.js and Node.js/Express.js. Integrated Stripe API for secure payments and JWT for user authentication. Employed distributed and parallel systems techniques like load balancing and caching to improve response time by 20%. Deployed with Docker and Kubernetes for high availability.
- **Online Banking System (2024):** Developed a secure online banking platform using PHP and Laravel, focusing on user authentication and transaction management. Implemented JWT-based security and encryption. Deployed with Docker and Kubernetes to handle high traffic and ensure fault tolerance.
- **Fake News Detection System (2024):** Created a machine learning-based web application using Flask, Naive Bayes, and LSTM models to detect fake news, achieving 85% accuracy. Applied natural language processing and information retrieval techniques. Utilized Redis for caching to manage high traffic.

## CERTIFICATIONS

- Object Oriented Programming using C++ from Basic to Advanced Feb 2023
- Python Data Structures & Algorithms + LEETCODE Exercises Apr 2023
- Machine Learning rockstar-end to end practice Feb 2024
- Software Architecture & Design of Modern Large Scale Systems Jan 2024

## ACHIEVEMENTS

- Finalist at GCETTS Internal Hackathon Aug 2024
- Participated in Amazon ML Challenge Sep 2024
- Solved 500+ DSA questions on various platforms