Ayush Sharma

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EDUCATION

Jaypee Institute of Information Technology   Noida, Sector 62
Bachelor of Technology in Computer Science and Engineering ; CGPA: 8.3/10   *Sept 2022 – Present*

Delhi Public School Ghaziabad   Ghaziabad
Higher Secondary (XI-XII) ; Percentage: 92.0%   *May 2019 – April 2021*

EXPERIENCE

Software Engineer Intern   June 2025 – Present
Appzlogic Mobility Solutions Pvt. Ltd.   *Noida, Sector 62*
- Contributing as a Full Stack Developer to an enterprise-grade user authentication and verification system, ensuring secure and scalable account creation, login, and password recovery functionalities.
- Integrated OTP-based email verification workflows with reduced response time and improved system reliability, enabling secure user onboarding and password reset via email.

Data Science Intern   June 2024 – July 2024
IBM SkillsBuild Program by Edunet Foundation   *Remote*
- Developed and deployed advanced machine learning models and pipelines for predictive analytics and heart disease detection, achieving 95% accuracy through feature engineering and supervised learning techniques to drive data-informed decision-making and operational efficiency.

PROJECTS

Comparative Analysis of Privacy Preserving Techniques in Pneumonia Detection
Machine Learning, AI, PyTorch, TensorFlow, Python, CUDA, OpenCV   Jan 2025 – May 2025
- Implemented differential privacy, federated learning, and homomorphic encryption frameworks for medical image processing, enabling secure pneumonia detection while preserving patient data confidentiality.
- Developed privacy-preserving neural network architectures optimized for high diagnostic accuracy across distributed healthcare systems without requiring direct access to sensitive patient data.

WeChat | *MERN Stack, Socket.io, JWT Authentication, Render*   Sept 2024 - Nov 2024
- Developed a full-stack real-time messaging application using MERN stack with Socket.io implementation for bi-directional communication, resulting in 100% message delivery rate and sub-second response times.
- Architected secure user authentication system using JWT tokens and bcrypt password hashing, enabling seamless account creation and login functionality.
- Developed dynamic friend status tracking feature displaying online users in real-time through Socket.io event listeners, enhancing user engagement and reducing connection establishment time by 40%.

BattleCode | *C++,Object-Oriented Programming (OOP), Algorithms, Data Structures*   Oct 2023 – Nov 2023
- Implemented a scalable resource management system using object-oriented principles and design patterns, achieving 95% optimization in allocation efficiency through implementation of A* pathfinding, Floyd-Warshall, and Dijkstra's shortest path algorithms.
- Optimized system performance by implementing efficient data structures and parallel processing, significantly reducing computational overhead through STL containers.

PUBLICATIONS

Comparative Analysis of Privacy-Preserving Techniques in Pneumonia Detection
Accepted at IC3: International Conference on Contemporary Computing (2025)

ACHIEVEMENTS

- Solved 600+ Data Structures and Algorithm Problems on LeetCode and GeeksforGeeks.
- Achieved a maximum Pupil rating on Codeforces.
- Attained a 3-star coder title with a peak rating of 1669 on CodeChef.
- Selected as part of the Top 30 teams in the Ride-Hack 2024 College Hackathon.
- Secured a global rank of 27 in the CodeChef Starters 158 Competition.

SKILLS

Languages: C/C++, Python, JavaScript, Databases: MongoDB, MySQL
Areas of Interest: Algorithms and Problem Solving, Object-Oriented Design, Operating Systems, Full-Stack Development, Machine Learning, Distributed Systems, TCP/IP, Generative AI