Ankita Ghosh

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PROFESSIONAL SUMMARY

Results-driven Computer Science undergraduate with hands-on experience in software development, cloud platforms, and real-world technical projects. Demonstrated ability to design, build, and deploy scalable applications using industry-relevant tools. Actively seeking entry-level technology roles in dynamic engineering teams.

EDUCATION

B.Tech in Computer Science Technology   **June 2026**
University of Engineering and Management, Kolkata   Kolkata

Higher Secondary Education   **May 2022**
Carmel High School, Kolkata   Kolkata

WORK EXPERIENCE

Intern   **May 2025 – June 2025**
IEDC Labs Innovation Cell, UEM Kolkata   Kolkata
- Executed Software-in-Loop simulations for the Automated Car Parking project, physically mounting and calibrating ultrasonic sensors for precise obstacle avoidance.
- Utilized MATLAB to engineer object detection algorithms capable of identifying static infrastructure like traffic lights and utility poles to guide vehicle navigation.
- Optimized sensor data processing to achieve accurate detection within a 2-meter radius, reducing false obstacle positives by approximately 30% during loop testing.

AIML Intern   **June 2024 – July 2024**
IBM Skillsbuild   Remote
- Engineered an AI-powered Kidney Stone Prediction model using Python and Scikit-learn on a dataset of 1,000+ records, achieved 92% prediction accuracy by optimizing data preprocessing pipelines.
- Build and deployed a full-stack Food Ordering website on IBM Cloud, integrating an IBM Watsonx chatbot that automated customer queries and reduced manual response time by approx 40%.
- Developed a Disease Detection system combining predictive analytics with conversational AI, attained 85%+ precision in diagnosis suggestions and streamlined health queries for simulated users.

PROJECTS

Convolutional Neural Network (CNN) Implementation | Java, Linear Algebra, OOP   **Sep 2025 – Nov 2025**
- Designed a deep learning neural network from scratch in Java without external ML libraries to classify handwritten digits, demonstrating deep algorithmic understanding.
- Architected core components including Convolution Layers, Max Pooling, and Backpropagation to process image data and optimize network weights.
- Engineered custom Matrix Utility functions to handle complex linear algebra operations, achieving efficient feature extraction and pattern recognition.

Organ Donation System using Blockchain | Java, Maven, SHA-256   **Mar 2024–May 2024**
- Developed a decentralized Java application to manage organ donor records, ensuring 100% data immutability and transparency in the allocation process.
- Implemented SHA-256 cryptographic hashing to secure patient data blocks, preventing unauthorized alterations or tampering of sensitive medical history.
- Engineered a custom hash-based validation mechanism to verify the entire chain's consistency, simulating a secure enterprise-grade ledger system.

TECHNICAL SKILLS

Languages | Java, Python, HTML, CSS, JavaScript, SQL
Technologies | DBMS, Data Structures & Algorithms, RESTful APIs, Machine Learning, AI
Developer Tools | Git, IBM Watsonx Assistant, IBM Cloud, AWS, GitHub, VS Code
Libraries | Pandas, NumPy, Matplotlib
Certifications | IBM Skillsbuild (AI, Data, Web Dev), LinkedIn Learning (Agile, OOP), NPTEL (Soft Skills)