

Nandini Bajaj

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[🔗 Hashnode](#) [🔗 GitHub](#)

EDUCATION

B. Tech in Information Technology - 8.2 SGPA

November 2022 – May 2026

Ajay Kumar Garg Engineering College, Uttar Pradesh

Professional Experience

IBM

September 2025 – October 2025

Artificial Intelligence Intern

- Built and deployed an NLP sentiment analysis model during an IBM AI internship, accurately classifying customer feedback to support data-driven product and support decisions.
- Applied advanced machine learning algorithms and natural language processing techniques to design a robust sentiment classification pipeline with optimized code performance and maintainability.
- Collaborated with cross-functional teams to tune model performance, optimize feature engineering, and integrate predictions into real-world workflows, demonstrating end-to-end AI solution delivery skills.

PROJECTS

Boardify - Kanban Board (Frontend Performance & UX Optimization) [🔗](#)

HTML, CSS, JavaScript, React, DOM

- Engineered a fully functional task management application with comprehensive CRUD operations, drag-and-drop functionality, and smooth task reordering for optimized user workflows.
- Implemented local storage persistence using Web Storage APIs and JavaScript, ensuring session continuity and reliable data retention across browser sessions.
- Designed a fully responsive UI with dark/light theme support using modern CSS and JavaScript-driven DOM updates, ensuring consistent UX across desktop and mobile devices.

GrowwUp - Stock Trading Platform (Full-Stack Microservices Architecture)

React, JavaScript, Node.js, JWT, Git, Vercel

- Architected and deployed a stock trading platform clone using the MERN stack with microservices design patterns, implementing secure order management, watchlist, and portfolio tracking flows.
- Developed scalable RESTful APIs for orders, watchlists, and user portfolios with clean code design, ensuring maintainability and performance optimization; persisted data reliably in MongoDB.
- Implemented secure authentication using JWT tokens and adhered to secure coding practices for sensitive user financial data protection.
- Deployed application on Vercel with CI/CD pipeline integration for continuous delivery and automated testing workflows.

Sentiment Analysis Model - Intern Project

Python, NumPy, REST APIs, IBM Cloud

- Designed a scalable sentiment analysis model to accurately classify and interpret user opinions using natural language processing.
- Implemented advanced machine learning algorithms for sentiment detection, achieving measurable improvement in analytical accuracy.
- Integrated actionable insights from sentiment data to support data-driven decision-making for real-world applications

SKILLS

Programming Languages: Core Java, Python, C++, SQL, HTML/CSS, JavaScript

Technologies/Frameworks: React, Next.js, Node.js, Express, MongoDB, Docker, Kubernetes, Bootstrap, Supabase, Stripe, REST APIs, and DOM APIs

CS Fundamentals: Operating Systems, Computer Networks, DBMS, Data Structures & Algorithms (200+ problems solved)

Developer Tools: PostgreSQL, MySQL, Postman(API testing), Git, GitHub, Prisma, Redux, VS Code, CI/CD Automation (Git-based workflows), Flask

-Technical content creation, Advanced MS-Excel, and Power BI.

Achievements

- Fashion Society, *Modelling Domain*: Contributed to award-winning performances while managing 15+ hrs/week training with SGPA 8.0+, building leadership, teamwork, and adaptability.
- Mentored 100+ students in Java, coding logic, and development fundamentals, improving project execution skills.
- Publish **Technical Blogs** [🔗](#) on Hashnode, sharing over 10+ articles on web development and full-stack projects, growing readership, and demonstrating the ability to explain complex concepts clearly.