Tanmay Garg

Ghaziabad, Uttar Pradesh, India

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EDUCATION

B.Tech – Computer Science and Engineering | ABES Engineering College, Ghaziabad **2024 – 2028**
GPA: 8.5 / 10

Class 12 – CBSE | Sunder Deep World School, Ghaziabad **2024**
Score: 85%

Class 10 – CBSE | Sunder Deep World School, Ghaziabad **2022**
Score: 88.5%

PROJECTS

Vibe Check Dashboard – AWS, Python, JavaScript Feb 2026
https://github.com/tanmaygarg06/VibeCheck

- Built a real-time sentiment analysis API that classifies user input into 8 emotion categories with ~500 ms latency using AWS Lambda (Python 3.12) and API Gateway.
- Designed a serverless REST backend capable of handling thousands of requests per minute at ~$0.01 per 1,000 invocations, eliminating dedicated server overhead entirely.
- Engineered DynamoDB schema with composite partition and sort keys to persist per-user emotion history and power cross-session mood trend queries.
- Enforced API security through key-based authentication, per-client rate limiting, and CORS policies, blocking all unauthorized endpoint access.
- Shipped a dependency-free frontend in HTML, CSS, and JavaScript with inline chart rendering for instant emotion trend visualization.

Real-Time Stock Analyzer – AWS, Power BI Jan 2026
https://github.com/tanmaygarg06/Real-Time-Stock-Dashboard

- Engineered a scheduled AWS Lambda pipeline that ingests and processes time-series price data for 8+ stock symbols, writing structured records to DynamoDB on every run.
- Integrated the data layer with a Power BI dashboard on a 5-minute refresh cycle, delivering near real-time price charts and trend signals to end users.
- Enforced access control by wiring Amazon Cognito user pools to the dashboard, preventing unauthorized exposure of live market data.
- Reduced hosting costs to near zero by deploying the frontend as a static site on Amazon S3, leveraging managed AWS infrastructure for high availability.
- Optimized query performance by modeling DynamoDB with a time-series partition schema, enabling fast multi-symbol historical price range lookups.

CERTIFICATIONS

AWS Academy Graduate – Cloud Architecting 2026
AWS Academy Graduate – Cloud Foundations 2026
Introduction to Internet of Things – NPTEL 2025
Introduction to Industry 4.0 and Industrial Internet of Things – NPTEL 2025

SKILLS & PROFILES

Programming Languages: Java, Python, C, JavaScript, HTML, CSS
Cloud – AWS: Lambda, API Gateway, DynamoDB, S3, Cognito
Concepts: Data Structures and Algorithms, Object-Oriented Programming, REST APIs, Serverless Architecture
Tools: Git, GitHub, VS Code, Power BI
Coding Profiles: LeetCode | CodeChef | Codeforces

ACHIEVEMENTS

- Led competitive programming activities as a member of CodeChef Club, ABES Engineering College, competing in monthly contests and running peer code-review sessions.
- Solved 200+ LeetCode problems spanning arrays, strings, recursion, trees, and DP, ranking in the top percentile among peers in the first two years of B.Tech.
- Planned, built, and shipped two production-grade AWS cloud projects within two months as a second-year undergraduate, each live and publicly accessible on GitHub.
- Completed two AWS Academy certifications — Cloud Foundations and Cloud Architecting — totalling 80 hours of hands-on cloud training across core AWS services.
- Earned two NPTEL certifications in IoT and Industry 4.0, applying concepts of industrial connectivity and smart systems to academic and personal projects.