ASHISH SINGH

Ballia, Uttar Pradesh
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Education

Bachelor of Technology – Electronics and Communication Engineering **CGPA: 8.59 / 10**
National Institute of Technology, Hamirpur Expected Graduation: 2027
Senior Secondary (CBSE): 96.2% 2022
Secondary (CBSE): 94% 2020

Technical Skills

Cloud: AWS (EC2, S3, ECS, EKS, CloudFront, ALB, IAM, SQS, DocumentDB), GCP (Cloud Run, Cloud SQL, Cloud Storage, Document AI)
DevOps: Docker, Kubernetes, Jenkins, Terraform, GitHub Actions
Programming: Python, Bash, C++, SQL
Backend & Databases: FastAPI, REST APIs, MongoDB, PostgreSQL
Tools: Git, Linux, Maven, SonarQube

Experience

Technical Lead — SPEC, NIT Hamirpur 2025 – Present

- Led technical teams on society-driven projects involving cloud deployment, backend systems, and automation.
- Guided architecture design, code reviews, and implementation best practices for student projects.

Organizer & Technical Team — Electrothon (MLH Hackathon)

- Organized **Electrothon**, one of the largest North India hackathons under **Major League Hacking (MLH)**.
- Coordinated technical operations for a hackathon with **2000+ participants**, ensuring platform stability.

Projects

GenomeGuard — AI-Powered Genetic Disease Prediction Platform (AWS) GitHub

- Architected and deployed an enterprise-grade AI platform using CloudFront, ALB, ECS Fargate, and DocumentDB.
- Implemented asynchronous genomic analysis using SQS worker containers with secure IAM-based access.
- Automated infrastructure and deployments using Terraform and CI/CD pipelines; optimized costs via autoscaling.

Production-Ready PDF-to-CSV Processing System (GCP) GitHub

- Built a scalable PDF-to-CSV processing pipeline to extract structured data from large, unstructured documents.
- Deployed autoscaling Cloud Run services (4 vCPU, 8GB RAM) to handle compute-intensive PDF parsing workloads.
- Integrated Document AI for accurate data extraction and Cloud SQL (PostgreSQL) via private VPC connectors.