

# Divyansh Chawla

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## EDUCATION

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- **Jaypee Institute Of Information Technology** Noida, India  
*Bachelor of Technology (BTech)* July 2020 - July 2024
- **Delhi Public School Ghaziabad, Meerut Road** Ghaziabad, India  
*Senior Secondary* April 2018 - March 2020

## EXPERIENCE

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- **DesignX** Noida, Uttar Pradesh, India  
*Senior Python Developer* November 2025 – Present
  - Led backend engineering for enterprise automation platforms by designing and scaling Python microservices and REST APIs used in production by large enterprise clients, including Hero MotoCorp.
  - Architected and deployed Dockerized Kafka Connect pipelines to synchronize 400+ enterprise tables across MySQL and internal systems, enabling reliable real-time data movement across business-critical workflows.
  - Owned 200+ Apache Airflow DAGs powering ETL and workflow orchestration, improving pipeline reliability through automated alerting and maintainable production scheduling.
  - Built IoT data pipelines processing 500+ machine telemetry events per hour and integrated SAP ECC with internal platforms to enable real-time bidirectional data exchange across enterprise systems.
- **DesignX** Noida, Uttar Pradesh, India  
*Python Developer* August 2024 – November 2025
  - Developed 150+ REST APIs, 30+ reusable Python modules, and 35+ IoT transformation pipelines to support analytics, automation, and enterprise application workflows.
  - Modernized legacy backend systems by migrating PHP APIs to Python and improving performance through query optimization, indexing, and database partitioning.
  - Digitized core manufacturing workflows, including PQCS and NPD processes, by building backend systems that streamlined execution for Hero MotoCorp.
  - Reduced manual reporting effort by 80% by engineering automated dashboards, alerting pipelines, and rule-based data validation workflows.

## PROJECTS

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- **Formbricks Lifecycle Automation**
  - Built a CLI-based orchestration tool to automate local deployment of Formbricks, managing PostgreSQL and Redis services through Docker Compose for reproducible developer setup and environment provisioning.
  - Integrated multiple LLM providers, including OpenAI, Claude, and Ollama, to generate synthetic datasets spanning 5+ survey workflows and diverse user personas for testing and product simulation.
  - Engineered a REST API-driven data seeding pipeline that preserved referential integrity without direct database writes, improving safety and consistency across seeded environments.
  - Designed a modular cross-platform architecture with automated health checks, dynamic secret generation, and fault-tolerant error handling to improve reliability and operational maintainability.
- **LogStream**
  - Simulated NVM logging in C++ by integrating a MESI cache-coherency protocol to minimize persistent writes, achieving seamless scaling across different memory capacities without code overhaul.
  - Parallelized logging operations using `std::thread` and `std::atomic`, reducing latency by 45% and write counts by 50%, while ensuring race-free execution through bespoke lock-free queues.
  - Profiled performance using `std::chrono` and a vector-backed memory model to quantify latency, throughput, and energy, then analyzed traces to localize hotspots and drive targeted optimizations.
  - Designed the simulator as a configurable benchmarking framework for evaluating logging behavior across varying memory capacities and workloads, improving extensibility for future systems experiments.

## SELECTED IMPACT

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- **Business Scope:** Delivered backend systems for enterprise accounts contributing over **Rs. 1 Cr** in annual recurring revenue, with ownership spanning requirements, deployment, and production support.
- **Client Exposure:** Built solutions for large enterprise customers including **Hero MotoCorp, Hindustan Unilever, Amber, Mondelez, Dabur, CEAT, and PICL.**

## SKILLS

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- **Languages:** Python, SQL, C++, JavaScript, Bash
- **Backend & Frameworks:** FastAPI, Django, Django REST Framework, Apache Airflow
- **Data & Infrastructure:** Apache Kafka, Docker, Redis, REST APIs, ETL Pipelines
- **Databases:** PostgreSQL, MySQL, MongoDB, SQLite
- **Tools & Platforms:** Git, Linux, Docker Compose, Postman, Jenkins, Google Cloud Platform (GCP)