

Ayush Mishra

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EDUCATION

B.Tech in Computer Science, Chandigarh University

Aug 2022 – Jul 2026

Relevant Coursework: Data Structures, DBMS, Operating Systems, Web Development

Class Representative (2022–2024): Coordinated between faculty and 60+ peers, demonstrating leadership and coordination.

PROJECTS

Real-Time Analytics Pipeline 🔗

Apache Kafka, PySpark, Airflow, PostgreSQL, Docker

Crafted a data pipeline that processes and transforms over 10,000+ user events/hour in real-time to enable low-latency behavioral analytics for web platforms.

Resolved the challenge of delayed reporting in large-scale systems by introducing a real-time architecture that improved visibility and reduced data latency by 70%.

A streaming pipeline was constructed using **Apache Kafka** for ingestion, **PySpark** for in-memory transformations, and **PostgreSQL** for persistence. Daily summaries coordinated via **Apache Airflow**, fully containerized with **Docker**.

Full-Stack Job Portal 🔗

React.js, Django REST, JWT, CI/CD, PostgreSQL

Created and launched a scalable platform supporting 100+ concurrent users, where job seekers and recruiters interact securely through dedicated interfaces.

Remedied the problem of fragmented job applications by assembling a unified system with token-based authentication, resulting in a seamless and secure user experience.

Secure RESTful APIs were devised using **Django REST Framework** and **JWT**, with a responsive frontend in **React.js**, and execution via **Docker** and **GitHub Actions** with CI/CD integration.

ETL Pipeline with PySpark 🔗

PySpark, Docker, PostgreSQL

Streamlined the ETL of raw CSV datasets (up to 1M rows) into a clean PostgreSQL warehouse for analytics dashboards and reporting.

Minimized manual data cleaning effort by over 80% through a reproducible and containerized transformation pipeline.

PySpark DataFrames were employed for transformation and aggregation, with output stored in **PostgreSQL** and end-to-end flow containerized using **Docker**.

Personal Portfolio Website 🔗

React.js, Tailwind CSS

Outlined a responsive personal portfolio that showcases 4+ major projects and is optimized for fast load and mobile responsiveness.

Smooth navigation and modular components were formulated in **React.js**; styled using **Tailwind CSS** for utility-first consistency and maintainability.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, C++

Frontend: React.js, Bootstrap

Backend: Django, Django REST Framework

Big Data: Apache Kafka, PySpark, Apache Airflow

DevOps: Docker, GitHub Actions

Databases: PostgreSQL, MongoDB

Tools: Git, Postman, VS Code

CERTIFICATES

CS50's Programming with Python

HarvardX, 2025

CS50's Web Dev with Python and JavaScript

HarvardX, 2025

CS50's Intro to Databases with SQL

HarvardX, 2025

Linux for Developers

Coursera, 2025