DEV PRATAP SINGH

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Education

Bachelor of Technology(Information Technology)   **2021 - 2025**
KIET Group of Institutions (AKTU)   *CGPA: 7.78*

Senior Secondary (PCM)   **2019 - 2021**
Dayawati Modi Academy (CBSE)   *Percentage: 81.6*

Matriculation   **2017 - 2019**
Priyanka Modern School (CBSE)   *Percentage: 89.9*

Projects

Tokyo Olympics ETL & Dashboard |*Scala, Apache Spark, PostgreSQL, Chart.js*   **October 2025 - November 2025**
- Built an end-to-end ETL pipeline in Scala and Apache Spark to ingest, clean, and transform Olympics datasets (athletes, medals, entries).
- Produced analytics for country medal standings, discipline participation, and gender balance; persisted results to PostgreSQL for downstream use.
- Implemented automated HTML dashboard generation (multi-page) using Chart.js and responsive CSS to visualize insights for stakeholders.
- Managed dependencies and reproducible builds with SBT; resolved Scala–Spark compatibility and runtime issues to ensure stable execution.
- Created reusable Visualization.scala to export interactive pages (index, countries, gender, disciplines) from Spark DataFrames.

Lifestyle ETL & Analytics |*Scala, Apache Spark, PostgreSQL, Parquet*   **October 2025 - November 2025**
- Designed and implemented a scalable ETL pipeline to ingest CSV/Parquet lifestyle datasets, enforce data quality, and normalize fields (age groups, yes/no flags).
- Implemented BMI computation/repair, deduplication, essential-field enforcement, and derived features.
- Produced analytics and metrics (percentiles, avg BMI by profession, sleep statistics) and persisted insights to PostgreSQL for BI dashboards.
- Automated table creation and JDBC writes; added config-driven behavior and audit logging for robust, repeatable runs.

Fitness Application |*Spring Boot, React.js, PostgreSQL, RabbitMQ, Eureka, Gemini API*   **Feb 2025 - May 2025**
- Built a fitness tracking platform using Spring Boot microservices, React.js, and PostgreSQL.
- Integrated Eureka Server for dynamic service discovery and centralized configuration with Spring Cloud Config.
- Used RabbitMQ to enable asynchronous, non-blocking communication between microservices.
- Implemented secure authentication and authorization with Keycloak and OAuth 2.0.
- Integrated Gemini AI API to provide personalized fitness recommendations to users.

Technical Skills and Interests

Languages: Java, Scala, Python, SQL, JavaScript.
Frameworks / Technologies: Apache Spark, SBT, Kafka, Spring Boot,RabbitMQ.
Databases & Warehousing: PostgreSQL, Data Warehousing concepts, ETL, Parquet / CSV ingestion, schema design.
Tools & Platforms: GitHub, IntelliJ IDEA, VS Code, Docker.
Other: Data Structures & Algorithms (200+ LeetCode solved), OOPs.

Courses and Certification

Programming Essentials in C++. (Cisco) (13 Dec 2022)
Introduction to Cybersecurity. (Cisco) (25 Jun 2023)
Introduction to Java. (Coursera) (15 Oct 2023)
Microsoft SQL Server. (LindkedIn) (31 Oct 2023)

Leadership / Extracurricular

- Extra curricular involvement and played kind of leading position. Currently working as a managing assistant for college fashion club.
- Worked as a student coordinator to plan the batch's freshmen celebration (2022–2026).