GARVIT GUPTA

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PROFILE SUMMARY

Aspiring Data Engineer with strong foundation in Python, SQL, and big data processing. Experienced in building data pipelines, performing large-scale data preprocessing on 421K+ records, and implementing machine learning workflows. Skilled in PySpark, ETL processes, data cleaning, and performance optimization. Passionate about designing scalable data systems and transforming raw data into meaningful insights.

TECHNICAL SKILLS

Languages & Frameworks: Python, Java, Sql, HTML,CSS,Tailwind CSS, React.js, Node.js, Express.js, JWT
Databases & Core CS: MongoDB, MySQL, SQL Joins, Data Structures & Algorithms, OOP, Operating
Systems Backend & Security: RESTful APIs, JWT Authentication, Role-Based Access Control (RBAC)
Tools & Platforms: Git, GitHub, VS Code, CI/CD pipelines, Jupyter Notebook.
Big Data & Processing: Pyspark, Apache Spark, Data Processing & Transformation.

EXPERIENCE

Software Development Intern   Sep 2024 – Feb 2025
Syncverse

- Worked on backend data handling and optimized API data processing workflows.
- Improved database query performance through indexing and structured query optimization.
- Debugged data inconsistencies and ensured data integrity across systems.
- Collaborated in agile environment to enhance data reliability and backend stability.

PROJECTS

Walmart Sales Performance Analytics   Oct 2024
Python, Pandas, NumPy, Scikit-learn, Matplotlib, Jupyter Notebook | GitHub

- Built a machine learning pipeline to predict Walmart sales using Linear Regression and Random Forest models on 421K+ retail records.
- Performed feature engineering and data preprocessing on multi-source datasets (sales, stores, features) using Pandas and NumPy.
- Achieved 97.07% prediction accuracy with Random Forest Regressor through hyperparameter tuning and feature optimization.
- Implemented backward feature elimination to identify top 6 predictive features (Dept, Size, Store, Week, Type, CPI), reducing model complexity by 40%.

WebHome   Jun 2025
Node.js, Express.js, MongoDB, EJS, CSS | GitHub

- Built a full-stack rental property platform with **Passport.js authentication** and session-based access control.
- Implemented an automated booking system, reducing manual operations by 35% through validation & conflict detection.
- Designed **RESTful APIs** for property CRUD operations, user management, and booking workflows.
- Built responsive **EJS-based** UI templates following **MVC architecture** for maintainable code structure.

Food Ordering Website   Feb 2025
React.js, Node.js, Express.js, MongoDB, Stripe API | GitHub

- Built a MERN-based food ordering platform supporting real-time order processing and user authentication.
- Implemented **JWT-based authentication** with secure token handling and session validation.
- Designed **RESTful APIs** for menu management, cart operations, and order tracking.
- Integrated **Stripe payment gateway** with **webhook handling** for secure and reliable transactions.

EDUCATION

Vellore Institute of Technology   Nov 2022 – Nov 2026
Bachelor of Technology in CSE (Artificial Intelligence & Machine Learning)   CGPA: 7.99

CERTIFICATIONS

- Applied Machine Learning In Python Coursera Link
- IBM Generative AI using IBM Watsonx   Link