GARVIT GUPTA

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PROFILE SUMMARY

Aspiring Operations Research and AI/ML student with strong foundations in Python, data structures, and analytical problem-solving. Interested in mathematical optimization, supply chain analytics, and developing data-driven decision support models. Experienced in data analysis, model building, and collaborating on complex technical problems using structured and scalable approaches.

TECHNICAL SKILLS

Languages & Frameworks: Python, Java, JavaScript, HTML5, Tailwind CSS, React.js, Node.js, Express.js
Databases & Core CS: MongoDB, MySQL, SQL Query Optimization, Data Visualization
Backend & Security: RESTful APIs, JWT Authentication, Modular Architecture, RBAC
Tools & Platforms: Git, GitHub, Debugging & Software Testing Concepts, Power BI, Excel

PROJECTS

OLABookings Data Analysis |*SQL, Power BI, MySQL, Excel, Python* | 🐙 Link

- Designed and executed SQL queries on ride-booking database to analyze customer behavior, driver performance, and booking patterns across vehicle types.
- SQL, Power BI, Excel analysis of 50K+ OLA ride bookings from Bengaluru
- Analyzed customer behavior, driver performance, booking patterns cancellations
- Developed interactive Power BI dashboards calculating KPIs like peak hours, revenue trends
- Extracted insights on payment methods, vehicle preferences, utilization metrics

Walmart Sales Performance Analytics |*Python, Pandas, NumPy, Scikit-learn, Matplotlib* | 🐙 Link

- Built an end-to-end **machine learning pipeline** to predict Walmart sales using **Linear Regression** and **Random Forest** on **421K+** retail records
- Performed **data preprocessing and feature engineering** 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
- Applied **backward feature elimination** to identify top 6 predictive features, reducing model complexity by **40%**

WebHome |*Node.js, Express.js, MongoDB, EJS, CSS, JavaScript* | 🐙 Link

- Built full-stack rental property platform with **Passport.js authentication** and Express session management
- Built automated booking system reducing manual management by **35%** through validation and conflict detection
- Designed **RESTful APIs** for property **CRUD operations**, user management, and booking workflows
- Created responsive **EJS templates** with **form validation** and implemented **MVC architecture**
- Executed manual test cases and documented defects to improve feature reliability
- Performed **API testing** using **Postman** to validate request/response flows
- Designed **regression test** scenarios before feature deployment to ensure system stability

EDUCATION

Vellore Institute of Technology   **Nov. 2022 – Nov. 2026**
Bachelor's in CSE Specialization in Artificial Intelligence & Machine learning   *CGPA : 7.99*

CERTIFICATIONS & ACHIEVEMENTS

- IBM GEN AI Using IBM Watsonx Link
- Applied Machine Learning in Python (Coursera)
- Solved 200+ DSA problems, strengthening algorithmic thinking and problem-solving skills.