GARVIT GUPTA

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PROFILE SUMMARY

Software engineer with expertise in full-stack development and machine learning. Built scalable web applications and ML models achieving 97% accuracy. Solved 170+ DSA problems across platforms, skilled in Python, JavaScript, data engineering, and RESTful APIs, seeking opportunities to contribute to innovative engineering teams.

TECHNICAL SKILLS

Languages & Frameworks: Python, Java, JavaScript, HTML5, Tailwind CSS, React.js, Node.js, Express.js
Machine Learning: Scikit-learn, Pandas, NumPy, Matplotlib, Feature Engineering, NLP, Computer Vision
Databases & Core CS: MongoDB, MySQL, Data Structures & Algorithms, OOP
Backend & Security: RESTful APIs, JWT Authentication, RBAC, MVC Architecture
Tools & Platforms: Git, GitHub, VS Code, Jupyter Notebook, software testing, debugging tools

PROJECTS

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**
- Collaborated with cross-functional stakeholders to debug, test, and validate production-grade features

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

- Developed ML regression models for **421K+ retail records**, achieving **97.07% accuracy** with Random Forest, outperforming Linear Regression by **85%**
- Engineered **data preprocessing pipeline** merging sales, store, and feature datasets, handling missing values, categorical encoding, and temporal features
- Applied **backward feature elimination** identifying top 6 predictive features, reducing model complexity while maintaining **95.32% accuracy**
- Analyzed **feature importance** revealing Department and Store Size contributed **91.53%** of predictive power for inventory optimization

Smart Product Pricing Prediction System |*Scikit-learn, Pandas, NumPy, NLP* | ⚙ Link

- Built end-to-end **ML pricing model** for **75K+ e-commerce products** using multimodal features from text descriptions and product images
- Implemented **NLP pipeline** with TF-IDF vectorization and text preprocessing to extract semantic features from product descriptions
- Developed **image processing module** extracting visual features using computer vision techniques to enhance pricing accuracy
- Optimized model performance achieving **SMAPE score of 48.4** through feature engineering and hyperparameter tuning

EDUCATION

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

CERTIFICATIONS & ACHIEVEMENTS

- Applied Machine Learning in Python Link
- IBM GEN AI Using IBM Watsonx Link
- Solved 170+ DSA problems, strengthening algorithmic thinking and problem-solving skills.
- Represented college in 5+ inter-college cricket tournaments, developing teamwork and collaboration.