

Hardik

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SKILLS

- **Languages:** Python, C++, Java, C, JavaScript,
- **Frameworks:** HTML and CSS, Numpy, Scikit-learn, Flask, Matplotlib
- **Tools/Platforms:** MySQL, Git & Github, Linux, Docker
- **Soft Skills:** Problem-Solving, Team Player, Adaptability, Critical Thinking

PROJECTS

Personal Expense Tracker Desktop Application : [GitHub](#)

Jul'25

- Designed and built a Java based Personal Expense Tracker desktop application, applying core DSA concepts (arrays, sorting, searching) to efficiently manage **100+ expense records** with fast retrieval.
- Developed an interactive Java Swing GUI with category-wise expense input, filtering options, and automated monthly summaries, improving expense analysis **efficiency by ~60% compared to manual tracking**.
- Implemented analytical features such as highest/lowest expense detection, **category-based filtering**, and visual summaries, enabling users to identify spending patterns and reduce unnecessary expenses.
- Enabled persistent local data storage, **ensuring 100% data retention across sessions** without external databases, resulting in a lightweight, portable, and user-friendly desktop application.
- **Tech:** Java, DSA, Java Swing

Crop Recommendation System – Machine Learning Model: [GitHub](#)

Mar'25

- Developed a machine learning based crop recommendation system using Linear Regression, **trained on soil nutrients (NPK)**, rainfall, and climate parameters to generate real-time crop suggestions.
- Performed end-to-end data preprocessing and feature engineering (handling missing values, normalization, correlation analysis), improving model prediction accuracy by **~18–22% over the baseline**.
- Optimized and evaluated the model using performance metrics such as **R² score and RMSE**, achieving reliable recommendations across multiple environmental conditions.
- Enabled **faster decision-making** for crop selection without requiring technical expertise and Built a lightweight user interface for parameter input and instant predictions.
- **Tech:** Python, Pandas, NumPy, Scikit-learn, Linear Regression

TRAINING

Centre for Professional Enhancement| Placement Ace: Java Bootcamp | [CERTIFICATE](#)

Jun'25-Jul'25

- Strengthened core Data Structures and Algorithms (DSA) foundations by consistently solving placement-focused problems on LeetCode and Codeforces using Java.
- Developed in-depth proficiency in arrays, strings, trees, graphs, dynamic programming, backtracking, and Java Collections, while writing optimized, interview-ready solutions with proper time and space complexity analysis.
- Enhanced problem-solving speed, accuracy, and coding confidence through mock contests, timed practice sessions, and regular competitive programming, leading to improved logical thinking and readiness for technical interviews.

CERTIFICATES

- Infosys Springboard | [Computational Theory](#) Aug'25
- Master Generative AI & Generative AI tools (ChatGPT & more) | [Infosys](#) Aug'25
- Affective Computing | [NPTEL](#) Apr'25

ACHIEVEMENTS

- **Solved 360+ Problems on LeetCode:** Dec'25
Achieved 13 LeetCode Badges, demonstrating consistent DSA practice and problem-solving skills.
- **Solved 80+ Problems on GeeksforGeeks:** Dec'25
Improved algorithmic understanding through regular practice on GFG.

EDUCATION

- **Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 7.69 Aug'23 - Present
- **Rajendra Public School** Panjuana, Sirsa
Intermediate; Percentage: 72.8% Apr'21 - Mar'22
- **Satluj Public School** Sirsa, Haryana
Matriculation; Percentage: 76% Apr'19 - Mar'20