Harshkumar Padhiyar

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 PadhiyarHarsh01 | harshpadhiyar1 | Leetcode

SKILLS

Languages: Java, Python, JavaScript, SQL
Tech Stack: HTML, CSS, React.js, Node.js, Express.js, MongoDB, MySQL, Spring Boot
Tools & Platforms: Git, GitHub, VS Code, Postman, Firebase, Trello, Slack, Notion
Others: Pandas, Scikit-learn, REST APIs, Agile Workflow

WORK EXPERIENCE

MERN Stack Developer – Academic / Freelance Projects   Mar 2025 – Present
Remote / College-based

- Engineered full-stack applications using React.js, Node.js, Express.js, and MongoDB with optimized API performance.
- Designed responsive UIs, implemented reusable components, and managed state using React Hooks.
- Developed and integrated RESTful APIs; handled data modeling with Mongoose and MongoDB.
- Collaborated in Agile teams using GitHub, Postman, Trello; maintained clean, well-documented codebase.

Tata Group – Data Visualization Job Simulation (Forage)   Apr 2025
Virtual Internship

- Completed industry-aligned simulation with Tata Insights, focused on solving business problems using data.
- Cleaned and analyzed datasets; created interactive dashboards using Power BI and Tableau.
- Presented actionable insights through visual storytelling tailored for CXO-level stakeholders.
- Gained practical exposure in data-driven decision-making, communication, and reporting workflows.

EDUCATION

Parul University, Vadodara   Sept 2022 - May 2026
B.Tech. in Computer Science and Engineering   *CGPA: 8.75/10*
Relevant Coursework: Object Oriented Programming (OOPs), Databases, Discrete Maths, Design of Data Structures, Design and Analysis of Algorithms, Operating Systems, Computer Networks, Machine Learning, Advance Data Structures and Algorithms

PROJECT WORK

- **PixelVerse – Text to Image Conversion Web App (Jan 2025 – Mar 2025):** Designed and built a full-stack SaaS platform using MERN stack that converts text prompts into images using AI. Features include credit-based generation, authentication, Docker-based deployment, payment integration, and scalable image logging.
  Technologies: React.js, Node.js, Express, MongoDB, REST APIs, HuggingFace, RazorPay LINK

- **Sudoku – Interactive Puzzle Game (Dec 2024 – Jan 2025):** Created a Python-based Sudoku game with a dynamic GUI supporting difficulty levels, note-taking, real-time error checking, and an animated backtracking solver for learning purposes.
  Technologies: Python, Pygame, Backtracking, Algorithms LINK

- **Inventory Management System – Console-Based Java App (May 2025):** Developed a console-based inventory management system in Java using CSV file storage. Applied clean OOP principles to manage products, categories, and transactions with exception handling for robust user input and data persistence.
  Technologies: Java, CSV, OOP, File I/O, Exception Handling LINK

- **Text-to-Image ML Deployment Model (Dec 2025):** Developed a deep learning model for text-to-image generation using HuggingFace Transformers and PyTorch. Built PyTorch from source for Python 3.10 and CUDA 12.3 to enable GPU-accelerated inference on NVIDIA RTX hardware. Integrated a Gradio web interface for interactive, real-time prompt-to-image generation.
  Technologies: PyTorch, HuggingFace Transformers, CUDA 12.3, Python 3.10, Gradio, NVIDIA RTX LINK

CERTIFICATES

- Cisco Certified Network Associate
- NPTEL Swayam : Theory of Computation, Computer Networks and Internet Protocol

ACHIEVEMENTS

- Solved 500+ DSA problems across platforms like LeetCode & GFG.