Vipul Shrivastav

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github.com/Vipulcoder666 / leetcode.com/u/vipul_666/ / hackerrank.com/profile/shrivastav_vipu1

💼 PROFILE SUMMARY

Computer Science Engineering student with a strong foundation in data structures, algorithms, and problem-solving, along with solid knowledge of Computer Networks, TCP/IP, and the OSI model. Analytical and detail-oriented, seeking to contribute to secure and efficient network infrastructure while continuously learning emerging technologies.

🎓 EDUCATION

Bachelor of Technology – Computer Science & Engineering   *2022 – 26*
Maharana Pratap Group of Institutions, Kanpur

🎓 TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C
Network and System: Computer Networks, TCP/IP, OSI Model, HTTP/HTTPS, DNS, Subnetting, Routing & Switching Basics
Operating Systems: Linux (Basic commands, process management, networking commands like ping, netstat, traceroute)
Databases: MySQL, MongoDB
Developer Tools: Git, GitHub, Linux, Postman
AI & Developer Tools: ChatGPT, GitHub Copilot, Gemini
Core CS Concepts: Data Structures, Algorithms, Operating System, OOPs, DBMS

💼 PROJECTS

Low-Light Image Enhancement System | Python, OpenCV, Scikit-Image, NumPy

- Developed an image enhancement system that improves low-light images using YUV color correction, CLAHE, and gamma adjustment.
- Implemented optimized SSIM and PSNR image quality metrics using Scikit-Image.
- Enhanced brightness, contrast, and visibility while preserving natural colors through luminance-based processing.
- Designed a scalable pipeline capable of handling single images, batches, or real-time frames.
- Utilized Python, OpenCV, and NumPy to process images efficiently with clean modular code architecture.

DNS Resolver Tool | Python

- Built a tool to convert domain names into IP addresses using socket programming.
- Implemented DNS lookup functionality similar to nslookup.
- Demonstrated understanding of DNS resolution process.

💼 CERTIFICATIONS AND ACHIEVEMENTS

- **Problem Solving** – HackerRank
- **SQL (5-star Badge)** – HackerRank
- **MongoDB Basics** – GeeksforGeeks

💼 COMPETITIVE PROGRAMMING

Leetcode – 500+ problems solved
HackerRank – 200+ problems solved, 5 star in MySQL and problem solving