Shikhar Rathore

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1st Year Postgraduate Department of Computer Science & Engineering

PROFILE SUMMARY

Aspiring Software Development Engineer with a strong foundation in problem-solving, data structures, and algorithms. Proficient in Python and C++, with a keen interest in backend development and building efficient applications. Enthusiastic about cloud computing, AI-driven solutions, and writing clean, optimized code. Eager to learn and contribute to innovative projects.

EDUCATION

• M.Tech in Computer Science & Engineering PDPM IIITDM Jabalpur, Jabalpur, India

• B.Tech in Computer Science & Engineering Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal, India

2024 - Present

CPI: 7

2019 - 2023 CGPA: 7.98

PROJECTS

• Intrusion Detection System using Federated Learning Mentor: Asst. Prof. Shivansh Mishra $(Jan \ 2025 - Present)$

- Built a **privacy-preserving IDS** using **Federated Learning** to detect cyber threats across multiple networks.
- Developed 1-D CNN-based attack detection, achieving 99.56% accuracy with 0.99 precision.
- Implemented a secure Client-Server system using Flower Framework to ensure 100% data privacy.
- Brain Tumor Detection Using Deep Learning

 $(Aug \ 2024 - Dec \ 2024)$

- Designed a **CNN-based deep learning model** to classify brain tumors from MRI images.
- Used Transfer Learning (VGG16) for feature extraction, achieving 90%+ accuracy.
- Applied **image augmentation**, **normalization**, **and segmentation** to improve model generalization.

SKILLS SUMMARY

- **Programming:** Python, C++
- Software and Tools: NumPy, Pandas, Matplotlib, PyTorch, Jupyter, Anaconda, Google Colab, MySQL, VS Code
- Concepts: Machine Learning, Deep Learning, Data Structure and Algorithms, Operating Systems, DBMS
- Soft Skills: Communication, Teamwork, Problem-Solving, Adaptability

ROLES & RESPONSIBILITIES

• Teaching Assistant, DSA Lab - Mentored 100+ students in DSA. (Aug-2024)