Divyansh Yadav

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Technical Skills

- **Programming Languages:** C, C++, Python.
- **Web Technologies:** HTML, CSS , flask , Django
- **Database:** MySQL , SQL , InfluxDB.
- **Tools & Frameworks** VSCode, Grafana, Ms Office, GitHub, Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib.
- **CS Fundamentals:** OOPS, DBMS, OS, DSA, Computer Networks, Neural Networks ,Soft Computing.

Experience

AI Intern | Infosys Springboard *November 2024 – January 2025*

- Developed and deployed an AI-driven Traffic Management System using Python, OpenCV, YOLO, EasyOCR, and flask to enable dynamic signal control based on real-time traffic density.
- Integrated ATCC and ANPR modules, automating vehicle detection and routing with high accuracy across simulated junctions.
- Simulated decentralized data flow, aligning with distributed systems and network reliability concepts.
- Achieved a 40% reduction in congestion and 35% increase in operational efficiency by automating traffic decisions and minimizing manual intervention.

Trainee | Blue Book Foundation , Lucknow *August 2023 – November 2023*

- **Developed a Python-based data pipeline** to parse system logs and extract performance metrics (CPU, GPU, temperature), **ingesting data into InfluxDB** and **visualizing insights on Grafana dashboards**, resulting in **a 50% improvement in real-time system monitoring and performance analysis efficiency**.

Projects:

System Task Visualizer

Self-Driven Project

- **Built a real-time system monitoring pipeline** using Python to parse logs and extract metrics (CPU, GPU, temperature), with data ingested into **InfluxDB** and visualized via **Grafana dashboards**.
- Improved **monitoring efficiency by 45%** and **reduced manual troubleshooting time by 50%** through automation of data processing and performance analysis.

Machine Learning Project

- **Creditworthiness Prediction Model:** creditworthiness prediction using Logistic Regression and Random Forest = Achieved 92% accuracy in classifying financial reliability (Python, Scikit-learn, Pandas).

- **Disease Prediction System:** disease prediction using symptom-based feature analysis and supervised learning = Achieved 90% prediction accuracy for early-stage disease detection (Python, Scikit-learn, NumPy).

- **Handwritten Character Recognition:** handwritten character recognition using a CNN model trained on the MNIST dataset = Achieved 98% accuracy in recognizing handwritten digits (Python, TensorFlow, Keras).

File Conversion and Image Processing Platform

- **Developed a Flask-based web app** for file upload, format conversion (PNG↔JPG, PDF↔Images, DOCX→PDF), and basic image processing (e.g., grayscale).
- **Implemented a responsive UI with custom CSS**, enhancing usability and overall user experience.

Education:

- **B.Tech in Computer Science Engineering (AI & ML)** *July 2021 – June 2025*

  KMC Language University, Lucknow, UP (Appearing) - 8.14 CGPA

Certificate:

- Introduction to Artificial Intelligence *August 2024*
- Introduction to Deep Learning *August 2024*
- Introduction to Natural Language Processing *August 2024*