Shashwat Pandey

shsahwat.pandey020@gmail.com | 8707315770

github.com/Advin-020 | linkedin.com/in/shashwat-pandey-0b1b91268

Skills

Languages: Java, Python, SQL

Technologies & Tools: PyTorch, NumPy, Matplotlib, Basics of Selenium, Basics of Numba – CUDA, Git/GitHub.

Education

Shri Ramswaroop Memorial University
Currently in 3rd year - B.Tech in Computer Science and Engineering.

CGPA: 7.92/10
Relevant Coursework: Object-oriented programming, database management system, discrete maths, data structures and algorithms, operating systems, and basic knowledge of AI and machine learning.

Project Work

- **Implemented Neural Network :** Designed and implemented a neural network system using Python and NumPy, featuring fully connected layers with activation functions. Incorporated L1/L2 regularization and dropout for overfitting prevention. Integrated optimizers like SGD and Adam, along with popular loss functions. This framework can be used to train various types of models.
- **Surveillance system to check cleanliness :** Developed a real-time object detection model to identify and track litter and waste in monitored areas using surveillance cameras. The system utilizes technologies such as OpenCV for image processing and PyTorch for object detection, enabling accurate detection of unclean spots. It generates alerts for timely maintenance, enhancing operational efficiency through automated cleanliness monitoring.
- **Tool for data analytics :** Made a primary tool in Python which can be used to analyze and visualize data.

Participation & Certification

- Participated in SIH-2024(Smart India Hackathon)
- Secured 4th Rank in CodeX(Inter-University Coding Competition)
- Participated in Brackeys Game Jam 2024.2