# AWANTIKA TRIPATHI

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2K24/CSE/29

## EDUCATION

| M Tech CSE | 2024-2026 | Delhi Technological University | 7.835 cgpa |
|---|---|---|---|
| B TECH (Computer Science & Engineering) | 2019-2023 | Feroze Gandhi Institute of Engineering and Technology | 8.67 cgpa |
| CBSE (Class XII) | 2019 | Nimisha Convent School | 86 % |
| CBSE (Class X) | 2017 | Nimisha Convent School | 95 % |

## ACADEMIC PROJECT

**1.CPU Scheduler Visualizer** | *C++, Operating Systems*
• Simulated FCFS, SJF, Priority, and Round Robin scheduling algorithms.
• Displays waiting time, turnaround time, and Gantt chart for process execution.
• Applied OS scheduling logic using C++ classes, structs, and modular code with loops and conditionals to manage process flow

**2. Huffman Compressor with GUI** | *C++, Python, Heap, Tkinter*
• Implemented a Huffman-based file compressor using C++ with **min-heap** and **binary tree** for lossless compression.
• Designed a Python Tkinter GUI to select files and automate compression-decompression via C++ integration.

3. **Disease Prediction and Doctor Specialist Recommendation System** | *Machine Learning, Naive Bayes,SVM, KNN, SHAP*
• Built a machine learning model to predict diseases based on user-reported symptoms, achieved 90.3% accuracy using Support Vector Machine (**SVM**) after comparing multiple classifiers.
• Used **KNN** to recommend appropriate medical specialists.
• Deployed the complete tool on Streamlit Cloud for real-time access.

## TECHNICAL SKILLS

| C, C++, Python, HTML, CSS, SQL | DSA, DBMS, Core Computer Architecture, OS, OOPs, ML, Deep Learning, Power Bi, Probability, Advance Linear Algebra, NumPy, Pandas, Matplotlib, Seaborn, | VSCode, GitHub, Jupyter Notebook |
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## TRAININGS

- HTML, CSS, and Java Script for Web Developers - **Coursera**
- Programming with Python - **Internshala** (2020)

## ACADEMICACHIEVEMENTS

- Secured 98.56 Percentile, 652 Gate Score in GATE CS 2025 | 2501 rank in GATE 2023
- Attended Robotics and Autonomous System Interview in IISC Bangalore

## POSITIONSOFRESPONSIBILITY

- Lead a team of 4 members to successfully complete [Disease Prediction and Doctor Specialist Recommendation System] Project.

## OTHER INFORMATION

- LinkedIn profile : www.linkedin.com/in/awant35