Abdul Rahim Memon

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TECHNICAL SKILLS

- **Languages & Tools:** Python (Pandas, Numpy, Matplotlib), C++, C, Data Structures, R, Java, Data Modelling, Logisim, MATLAB
- **Professional Skills:** Attention to Detail, Communication (Verbal & Written), Organizational Skills, Adaptability

EDUCATION

Bachelor of Science in Computer Science *Dalhousie University | Halifax, NS Expected Graduation: May 2027 ***

Computer Science (First Two Years) *Nirma University | Ahmedabad, India Completed with 9.32/10 CGPA ***
Awards: Academic Excellence and Scholar Awards

RELEVANT EXPERIENCE

Data Analysis Intern *Unbox Robotics | Pune, India Summer 2024*

- **Enhanced computational efficiency** for predictive modeling by applying **Principal Component Analysis (PCA)** to reduce dataset dimensionality and eliminate redundant features.
- **Implemented Hierarchical Clustering** to group identical warehouse parameters, effectively isolating relevant variables (layout, parcels/hr) from noise to improve model accuracy.
- **Streamlined the data pre-processing pipeline** by identifying statistical relationships between parameters, enabling the team to shift from time-consuming manual simulations to a targeted data-driven approach.
- **Documented** feature selection methodologies and clustering results, establishing a standard protocol for future data optimization tasks.

SYSTEMS & PROJECT EXPERIENCE

Course Projects *Nirma University | Ahmedabad, India 2023 – 2025*

- **Maze Solver (System Testing & Logic):** Developed a Maze Solver in C++ using BFS/DFS algorithms, implementing UAT logic to systematically detect and resolve pathfinding flaws.
- **Classroom Management Tool (Data Maintenance):** Created a CLI tool in C,

implementing robust data validation and error handling to ensure database integrity and reliability.

- **Multi-floor Lift System (Systems Support):** Designed and simulated a lift system in Logisim, applying troubleshooting principles to debug logic gates and optimize system response times.