Hassan Khalid

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SUMMARY

I am a motivated college student with a strong passion for learning and developing new skills. I am confident in my ability to utilize my knowledge and skills to contribute to any organization

EDUCATION

Forman Christian College University

Bachelor of Science in Computer Science   *June 2026*

ACADEMIC PROJECTS

Hotel Management System

- Designed and implemented a relational database using **SQL Server and T-SQL** to streamline hotel operations including reservations, billing, and room management.
- Structured data tables and relationships to ensure consistency, scalability, and ease of access for operational workflows.
- Improved overall query performance by **30%** through the use of **indexing** and **stored procedures**, enabling faster and more efficient data processing.

Car Rental System

- Developed a **Python-based car rental system** that supported both vehicle rentals and purchases, with real-time inventory updates.
- Designed a structured **data management architecture** to handle customer records, vehicle availability, and transaction history.
- Implemented transactional logic to ensure accurate bookings and enhance overall system reliability.

Exploratory Data Analysis

- Datasets Analyzed: CIFAR-10, Pak-Wheels, Play Tennis, Breast Cancer, Titanic, Iris, Pima Indians Diabetes **Algorithms Implemented from Scratch**
- AI Algorithms: **Linear Regression**, **Logistic Regression**, **Decision Trees**, **K-mean Clustering**, SVM Sort Algorithm: **Bubble Sort**, **Insertion Sort**, **Merge Sort**, Quick Sort Search Algorithms: **Breath First**, **Depth First**, A-star Other: **Huffman Encoding**, **Minimax**.

Top 100 in Kaggle Competition on Titanic Dataset

- Performed **EDA** on titanic dataset with 91% accuracy and reached the leaderboard in the kaggle competition.

SKILLS

- **Languages:** Python, Javascript, C, C++.
- **Frameworks:** TensorFlow, Pytorch, Scikit-Learn, NLTK,OpenCV, Langchain, HuggingFace, NVIDIA CUDA.
- **Full stack:** HTML/CSS, TypeScript, Nodejs, Reactjs, Nextjs, , RestAPI, Flutter.
- **Databases:** MySQL, PostgreSQL, MongoDB.