

# Arbbaz Alif Abdul Shafeeq

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## EDUCATION

### The University of Texas at Dallas

M.S., Business Analytics and Artificial Intelligence (STEM)

May 2026

GPA 4.00

### Vellore Institute of Technology, Chennai, India

B.Tech., Electrical and Electronics Engineering

Jun 2024

GPA 3.62

## TECHNICAL SKILLS

- **Programming Languages:** Python, R, SQL, MongoDB, C++, Java
- **Tools:** Microsoft Azure, Hadoop, Spark, MS Excel, Tableau, Lucid Chart, MS Office, Canva, MS SharePoint

## PROFESSIONAL EXPERIENCE

### RAX Tech International, Chennai, India

Design and Development Intern

Jun 2023 – Jul 2023

- Increased e-surveillance security by pioneering the integration of Raspberry Pi Pico and OV7670 camera, improving visual clarity by 80% with OpenCV based RGB processing.
- Developed an API using Python Flask to enhance data visualization, resulting in a 15% improvement in machine learning algorithm efficiency.
- Contributed to e-surveillance data labeling and dataset creation, enhancing algorithm accuracy by 25%.

## ACADEMIC PROJECTS

### AI-Powered Injury Intelligence Dashboard, UT Dallas

Mar 2025

- Built an NLP-based analysis system using TF-IDF and LLMs to process 10,000+ OSHA injury reports, extracting root causes, actions, equipment, and severity levels.
- Developed an interactive dashboard that highlighted state-wise and machinery-specific trends, reducing manual analysis time by 70%.

### Online Learning Platform, UT Dallas

Aug 2024 – Dec 2024

- Designed an Online learning Platform MySQL database named Mind Matrix, enabling seamless user registration, course enrollment, and progress tracking for over 200 users with 99% data integrity.
- Optimized database functionality with complex queries, automated triggers, and stored procedures, improving data processing speed by 30% and enhancing platform scalability.

### Loan Default Prediction System, VIT Chennai

Jan 2024 – Jul 2024

- Built a loan default prediction model with 91% accuracy, enhancing risk assessment.
- Conducted exploratory data analysis, identifying key factors such as credit history and loan amount to optimize model performance.
- Implemented decision tree algorithm and Optimized hyperparameters, boosting model predictive metrics.

## LEADERSHIP & ACHIEVEMENTS

- DataWhiz Hackathon, 3<sup>rd</sup> place Mar 2025
- TripAI X UTA Case Study Competition, 3<sup>rd</sup> place Mar 2025
- Business Analytics Leadership Council, UT Dallas Sep 2024 – Present
  - Student Ambassador - Bridged student-industry engagement by promoting events, mentorship, and professional development opportunities.
- Infinity Lions Club, UT Dallas Dec 2024 – Present
  - Volunteered with the Club, supporting FMSC meal packing, fundraising initiatives, and community outreach for the underprivileged.
- Biosphere Club, VIT-Chennai Nov 2021 – Jul 2023
  - Creative Team Head - Organized events to raise awareness about global warming and climate change.