

MD SHAHIR ZAOAD

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EDUCATION

The University of Texas at Dallas Master of Science in Computer Science	Aug 2023 - May 2025 CGPA: 4.00
Military Institute of Science and Technology Bachelor of Science in Computer Science and Engineering	May 2022 CGPA: 3.64

SKILLS

Programming Languages: JavaScript (ES6), Python, R, C++ | Familiar: TypeScript, C#, C, PHP, Java
Web & Technologies: HTML5, CSS3, React, NextJS, NodeJS, TailwindCSS, SQL, UI, RESTful API, MongoDB, Git, Bash
Data Science and ML: Apache Spark, Elastic Search (ELK Stack), Apache Hive, AWS EMR, DataBricks, MapReduce, Keras/TensorFlow

PROJECTS

Talk of The Town (Elastic Search (ELK Stack), Structured Streaming, Kafka, PRAW API)	Jan 2024 - Apr 2024
<ul style="list-style-type: none">Implemented a real-time system to extract, process, and store Reddit data leveraging Structured Streaming pipeline and Kafka.Enhanced program reliability and availability by introducing and enforcing serializability in the data.Analyzed the real-time data to gain insight into trendy video games using Elasticsearch, Logstash, and Kibana.	
ORACLE – A Rule based chat bot (Python, NLTK, BeautifulSoup, VADER)	Jan 2024 - Apr 2024
<ul style="list-style-type: none">Enhanced the system logic by utilizing Cosine Similarity scores (Vector Space Model) on a custom knowledge base.Improved user satisfaction by 30% with the utilization of term frequency & inverse-document frequency (tf-idf).Generated a sophisticated knowledge base by developing a transferable Web Crawler using BeautifulSoup.	
Soccer Predict (JS, Python, React, HTML5, CSS3, TailwindCSS, BeautifulSoup, MongoDB)	Aug 2023 - Dec 2023
<ul style="list-style-type: none">Attained an F1-score of 0.83, surpassing concurrent models on a similar task by 15-20% by fine-tuning the XGBRegressor model.Designed and developed an intuitive and user-friendly interface leveraging HTML5, CSS3, and React.jsLed a team of five toward effective collaboration by setting up an engaging environment, culminating in the success of the project.	
E-VA: An Enterprise E-Waste Solution (JS, HTML5, CSS3, SQL (Oracle), REST API, RDBMS)	Feb 2020 - Nov 2020
<ul style="list-style-type: none">Created a common ground for e-waste collectors of different levels by developing an Enterprise Resource Planning system.Developed the web interface (Admin Page, Login/Registration) for users by leveraging HTML5, CSS, and JS, SQL, and RDBMS.Designed the conceptual schema (schema diagram) for the database by collecting user requirements from the stakeholders.	

WORK EXPERIENCE

Volunteer Research Assistant <i>The University of Texas at Dallas</i>	May 2024 - Present
<ul style="list-style-type: none">Engaged in the development of domain-specific Large Language Models catered to languages with limited resources.Created a vaccine hesitancy dataset comprising 40,000 data entries by leveraging Selenium and BeautifulSoup.	
Trust Bank Ltd. <i>Engineering Trainee (Internship)</i>	Feb 2021 - Mar 2021
<ul style="list-style-type: none">Assisted the upper management with better decision-making with processing and filtration of customer data.Improved customer support by efficiently handling approximately 20% of the total customer data over the month.	

PUBLICATIONS

- Zoad, Md Shahir**, et al. "An attention-based hybrid deep learning approach for Bengali video captioning." Journal of King Saud University-Computer and Information Sciences 35.1 (2023): 257-269.
 - Q1, IF = 6.9, SJR = 1.198**
 - Proposed model outperformed existing Bengali video captioning model by **17%**.
 - Incorporated the Bahdanau Attention mechanism and gained a **10%** improvement in model evaluation result.

PERSONAL ACCOMPLISHMENTS & CERTIFICATES

- Recipient of MIST merit scholarship in Level 4 **Nov 2022**