K MUSADIQ PASHA

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linkedin.com \diamond github.com \diamond leetcode.com \diamond Portfolio

EDUCATION

Bachelor of Technology in Computer Science and Engineering (AIML), PES University 2022 - 2026 Relevant Coursework: Design and Analysis of Algorithms , Mathematics For Machine Learning, Big Data, Advanced Data Analytics, Algorithms and Optimizations in Machine Learning and Deep Learning on Graphs CGPA : 8.02

Pre University, BGS PU College Achieved **8th rank** in Karnataka for the Pre-University Exam 12th State Board Score : 98.5 %

SKILLS

Programming Languages:	Python, C++, Java, JavaScript, HTML, CSS
Core CS Concepts:	Data Structures & Algorithms, OOP, DBMS, Computer Networks
Machine Learning:	TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, NLTK
Tools & Platforms:	MySQL, Git, Docker, VS Code, React.js, Node.js, Knowledge Graphs

PROJECTS

Sorting Algorithm Visualizer GitHub

Technologies: JavaScript, HTML, CSS

- Built an interactive web application that visually demonstrates multiple sorting algorithms in real-time.
- Implemented speed control, array size customization, and algorithm selection features for educational purposes.

Spotify DBMS Full-Stack Application GitHub

Technologies: MySQL, React.js, JavaScript

- Developed a comprehensive music streaming database system with separate user and admin interfaces.
- Implemented authentication features, search functionality, and relational database design for music cataloging.

SnapIT Web Application GitHub

- Technologies: MongoDB, Node.js, jQuery
- Created a sleek image sharing web application with webcam integration and real-time upload capabilities.
- Designed intuitive user interface with MongoDB backend for efficient storage and retrieval of user data.

Multi-Modal Meme Virality Prediction GitHub

Technologies: HGNNs, CLIP, BERT

- Designed a multimodal virality predictor using Hypergraph Neural Networks to classify viral vs. non-viral memes.
- Integrated image, text, and metadata through ensemble learning for comprehensive feature representation.

ReTweetify: Turkish Hate Speech Classification GitHub

Technologies: BERT, SHAP, LLaMA, PEFT

- Developed a system to classify, explain, and rewrite Turkish hate speech tweets using NLP techniques.
- Implemented model explainability using SHAP and fine-tuned LLaMA models with PEFT for content rewriting.

Automated Chess Bot for Chess.com GitHub

Technologies: Stockfish , Python , PyAutoGUI , OpenCV

- Developed a stealth chess bot in Python with FEN parsing, Stockfish integration, and dynamic Elo scaling to 2200.
- Achieved 95% move accuracy across rapid, blitz, and bullet formats while evading Chess.com detection.

SELECT PUBLICATIONS

[1] Comparative Analysis of Traffic Accident Detection with Emphasis on Explainability of DL Models, ICMBDC 2024

[2] Beyond Loyalty and Betrayal: A Knowledge Graph-Enhanced RAG System for Crime Film Insights and Analysis, ICTIS 2025

2020 - 2022