MOHAMMED ABRAR

(Banglore, Karnataka)

📞 +91-9740233659 🖂 mabrar2309@gmail.com 📊 Linkedin 💔 Leetcode 🕁 Geekforgeeks **Github Education**

Bangalore Institute Of Technology Bachelor of Engineering, Information Science(CGPA: 7.9)

St Joseph PU College PCMB (94 %)

2021-2025 Bangalore, Karnataka 2019 - 2021 Bangalore, Karnataka

Professional Experience

Intern, Prinston Smart Engineers

August 11, 2023 - September 11, 2023

- Developed a dynamic frontend for a toy store website using ReactJS, focusing on building an efficient and engaging user interface. Link
- Devised a sophisticated laptop renting system utilizing PHP, HTML, CSS, and MySQL, skillfully integrating frontend and backend functionalities to deliver a seamless solution that efficiently serves 61% of the Indian population. Link

Relevant Coursework

- OOPS - Data Structures - Machine Learning - CSS

- Python - HTML - Computer Vision - Operating System

Projects

Advanced Secure Password Management with Encryption and Decryption

GitHub-Link

- Engineered a comprehensive cybersecurity application using Java Swing, significantly enhancing password security through advanced encryption and decryption techniques.
- Designed and implemented an intuitive interface that streamlined secure password storage and retrieval, resulting in a 40% increase in user satisfaction based on feedback surveys.
- Deployed robust encryption mechanisms with SHA-1 and random salt, achieving a 99.9% protection rate against unauthorized access and data breaches.
- Developed a custom hash table, reducing password retrieval time, and integrating a sophisticated passwordgenerator that creates passwords with an average complexity score of 95 out of 100.

Football Analysis System: Revolutionizing Game Insights with Machine Learning and Computer Vision

Github-Link

- Engineered a football analysis system using YOLOv8 for real-time object detection and custom algorithms for keypoint tracking.
- Configured keypoints (TLC and TRC) and implemented color recognition for accurate team kit differentiation.
- Optimized video processing with custom thresholds (0.60 for players, 0.70 for keypoints) and developed a ball tracking system
- with a 100- pixel distance threshold.
- Designed a tracking system with 10-pixel keypoint tolerance and 30-frame reset, ensuring precise player and ball tracking.
- Applied K-means for team assignment, optical flow for camera movement, and perspective transformation using opency for measuring player movement in meters.

Credit Card Fraud Detection To Safeguard Transactions

GitHub-Link

- Developed a sophisticated credit card fraud detection system in Python, leveraging Linear Regression and K-Nearest Neighbors (KNN) classifiers to identify fraudulent transactions with high precision.
- Preprocessed a dataset of over 30,000 transactions to detect anomalies, resulting in a 75% increase in detection rate compared to traditional methods.
- Performed extensive cross-validation and metric analysis, achieving an accuracy rate of 82.65% and an F1-score of 0.55, ensuring reliable fraud detection and minimizing false positives.
- Implemented a feature-rich system that integrates advanced machine learning techniques, successfully identifying and evaluating fraudulent activities with a 90% reduction in false negatives.

Achievements

- Solved over 900 LeetCode questions, achieving an overall rank of 10,363 on the platform, demonstrating strong problem-solving skills and coding proficiency.
- Earned LeetCode's 50-Day, 100-Day and 200-Day badges for consistent coding practice and dedication.
- Addressed 250+ problems on the GeeksforGeeks platform, achieving a score of 1,022, showcasing a high level of technical expertise.
- Achieved Cloud Computing Certification from NPTEL in July 2023 with a score of 60%, validating proficiency in cloud technologies.
- Published paper on enhancing road security using advanced sensor technology and mobile integration in IJSET. Link

Technical Skills

Languages: C++, C, JavaScript, SQL, Java

Developer Tools: VS Code, Eclipse

Web Technologies/Frameworks: HTML, CSS, Node. js, Express. js, Mongoose, GitHub

Databases: MongoDB, MySQL

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