MOHAMMED ABRAR

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Education

Bangalore Institute Of Technology **2021 – 2025**
Bachelor of Engineering, Information Science(CGPA: 7.9) *Bangalore, Karnataka*

Relevant Coursework

- Data Structures
- Operating System
- OOPS
- Python
- Reactjs
- HTML
- CSS
- Javascript

Projects

Advanced Secure Password Management with Encryption and Decryption | *JAVA SWINGS,CRPTOGRAPHY|* **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 retrieva**l times by **60%** and integrating a **sophisticated password generator** that creates passwords with an average complexity score of **95 out of 100.**

React-Driven Dvnamic TovStore website | *HTML. CSS. REACT JS* | **GitHub-Link**

- Constructed a **dynamic toy store frontend using React**, leveraging **useState**, **useEffect**, and **useContext** for **efficient state management and seamless user interactions.**
- Integrated core components including **ProductList, ProductDetail, and ShoppingCart**, resulting in a **cohesive and functional user experience** with a **40% surge in user engagement**.
- Implemented modern **UI/UX principles**, creating a **visually appealing and intuitive interface** that improved user satisfaction by **25% based on feedback.**
- Enhanced browsing and shopping experiences with features such as **user authentication, advanced product search**, and **filtering options**, leading to **a 50% rise in conversion rates.**

Credit Card Fraud Detection To Safeguard Transactions | *Linear Regression,KNeighboursClassifier* | **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.
- Utilized **scikit-learn** for comprehensive **dataset preprocessing**, **feature scaling**, and **model implementation**, enhancing model performance by **30%** through **optimized parameter tuning**.
- 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 and 100-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**.
- Completed a **one-month internship** at **Prinston Smart Engineers** from **August 11, 2023, to September 11, 2023, focusing on machine learning and full stack development.**
- **Earned certificates in Full Stack Web Development and Machine Learning** from Prinston **Smart Engineers, reflecting comprehensive knowledge and skill acquisition in both areas.**

Technical Skills

Languages: C++, C, JavaScript, SQL
Developer Tools: VS Code, Eclipse
Web Technologies/Frameworks: HTML, CSS,NodeJs, ExpressJS, Mongoose, GitHub
Databases: MongoDB, MySQL