

# MOHAMMED ABRAR



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<https://leetcode.com/u/MohammedAbrar2309/>

## Education

### Bangalore Institute Of Technology

Bachelor of Engineering, Information Science(CGPA: 7.9)

2021 – 2025

Bangalore, Karnataka

### Relevant Coursework

- |                    |          |           |              |
|--------------------|----------|-----------|--------------|
| - Data Structures  | - OOPS   | - Reactjs | - CSS        |
| - Operating System | - Python | - HTML    | - 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 retrieval** times by **60%** and integrating a **sophisticated password generator** that creates passwords with an average complexity score of **95 out of 100**.

#### React-Driven Dynamic ToyStore 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.
- Published paper on **enhancing road security** using advanced sensor technology and mobile integration in **IJSET**.

## Technical Skills

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**Languages:** C++, C, JavaScript, SQL

**Developer Tools:** VS Code, Eclipse

**Web Technologies/Frameworks:** HTML, CSS, NodeJs, ExpressJS, Mongoose, GitHub

**Databases:** MongoDB, MySQL

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