Mohammed Imran

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EDUCATION

Birla Institute of Technology and Science, Pilani, Hyderabad campus. 2021-2025
Bachelor of Engineering in Computer Science, CGPA:

Sri Chaithanya Educational Institutions, Hyderabad 2019-2021
PCM, Cum. Percentage: 99.6 %

Relevant Courses: Data Structures and Algorithms, Design and Analysis of Algorithms, Object Oriented Programming in Java, Database systems, Computer Networks, Computer Architecture, Operating systems, Machine Learning, AI, Blockchain Tech.

TECHNICAL SKILLS

Programming Languages: C/C++, Java, Python, JavaScript, SQL, Solidity.
Technologies/Frameworks: React.js, Node, Tailwind, Spring Boot, Python Libraries.

EXPERIENCE

Summer Intern at Nirmaan Organization, Hyderabad (on-site) June - Aug 2023

- Worked as Full-Stack Developer and carried out the development of the website **Blood Bank** for the organization.
- Developed an end to end, web application that stores the information of registered Donors, Patients fully authorized by Admin.
- Designed responsive pages for the Admin and Donors with Dashboard, Registrations, Profile and Login functionalities.
- Developed using React for frontend and Spring boot for creating RESTful APIs connected to MySQL database.

PROJECTS

Property Rental Agency, PL-SQL based relational database Application Feb - April 2023

- A simple application to mediate management and sharing of properties between owners, tenants and view monthly reports for the property and the tenant.
- Designed a relational schema and EER model pertaining to the requirements of the rental agency.

Health-Chain Management system with Challenge-Response Authentication Mar-April 2024

- A Blockchain-based Decentralized Application for storing and sharing of EMR (Electronic Medical Records) of patients.
- Implemented HMAC (Hash-Based Message Authentication Code) protocol for secure authentication of users.

Web Implementation of Convex Hull, Design and Analysis of Algorithms Feb - Mar 2024

- Carried out the web- implementation of Convex Hull using Kirk Patrick Siedel and Jarvis March Algorithms in JavaScript.
- An interactive user interface has been developed to visualize the formation of convex hull.
- Convex Hull is of great use in the domain of Game Development for collision detection and visualizing zones of influence and in the field of Data Science and Machine Learning for Outlier Detection and Cluster Visualization.

Early Detection of Heart Disease, Machine learning for sustainable development goals (SDG's) Oct – Nov 2023

- Developed Machine learning models that can predict the presence or absence of heart disease in patients based on their clinical and demographic information using the dataset.
- Implemented predictive models using Perceptron's Algorithm, KNN, AdaBoost, CatBoost and achieved accurate predictions of heart disease using standard and feature-engineered datasets from scratch.

POSITION OF RESPONSIBILITY

Active Volunteer, NSS, *BITS Pilani* Dec - Oct 2023
Technical Team Member, Computer Science Association, *BITS Pilani* Jan - Dec 2023
Carrom Teams Captain, Student Activity Centre, *BITS Pilani* Dec- May 2023