RAKESH YATA

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Summary

Highly motivated and enthusiastic person with a passion for quantum computing, seeking an opportunity to apply theoretical knowledge and programming skills to contribute to the development of quantum algorithms and technologies, while gaining valuable experience in a dynamic and innovative team environment.

Education

Rajiv Gandhi University of Knowledge Technologies   **2019 − 2023**
Bachelor of Technology in Computer Science and Engineering - CGPA:8.6   *Basar, Telangana*

Rajiv Gandhi University of Knowledge Technologies   **2017-2019**
Pre University Course - CGPA:8.7   *Basar, Telangana*

ZPHS, Chilpur   **2017**
X Grade - CGPA:9.8   *Jangaon, Telangana*

Projects

Financial Services Using Quantum Computing, *Quantum Computing*
- A project was executed in the realm of quantum computing to precisely determine the credit risk associated with assets or loans. The Quantum Amplitude Estimation algorithm was utilized to accurately estimate the credit risk by taking into account crucial economic factors, including the assets' specific loss given default (LGD) and default probability.

Credit Risk Calculator, *Quantum Computing*
- A basic quantum application built for the use of the finance industry where a user can enter the loss given default (LGD),default probabilities of assets and can calculate the value at risk associated with them by considering the economic factors.
- Frontend: HTML,CSS – Framework: Django

IPL team selection, *Quantum Annealing*
- An algorithm was meticulously developed to optimize the selection of players during the Indian Premier League Auction, aiming to minimize the total cost of players while maximizing the team's overall strength. This advanced algorithm employed Quantum Annealing, a state-of-the-art computational method, to efficiently and effectively determine the optimal player selection strategy, ensuring a balance between cost optimization and team performance enhancement.
- Github Code Link

Book Rental System
- A MERN Stack application designed for renting and borrowing books online for a low cost.
- MERN stack - Reactjs, Express, MangoDB, NodeJS.

Achievements

- IIT JAM Mathematics 2023 Qualified
- Participated in IBM Quantum Challenge Fall 2022
- Math Talent Hunt 2019 winner 2nd place- College Level
- Physics Quiz Winner 2nd place- College Level
- Mathematics Talent Test 2017 2nd place- District Level
- Science Exhibition winner - 1st place- NIT Warangal Technozion
- Logo Design Competition Winner - College Branch Competition

Technical Skills

- Qiskit
- Quantum Computing
- Python
- C
- JAVA
- HTML, CSS
- MySQL
- Latex
- Data Structures and Algorithms

Courses/Certifications

- Introducion to Quantum Information, KAIST, CourseEra
- Linear Algebra, MIT opencourseware
- Single Variable Calculus, NPTEL
- Multivariable Calculus, NPTEL
- Differential Equations, College coursework
- Probability and Statistics, College coursework
- Quantum Computing, College coursework

Personal Skills

- Adaptability
- Ability to work under pressure
- Ability to take initiative to solve problems
- Ability to manage time

Hobbies

- Playing cricket
- Reading science books, novels
- Exploring new places
- Watching Sci-Fi movies
- Listening music