

# ROHITH DINAKARAN

in Rohith Dinakaran ✉ rohith2001.rd@gmail.com ☎ +1 7166977793

## EDUCATION

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### Master of Science in Computer Science and Engineering

State University of New York

GPA : 3.75

08/2023 – present

Buffalo, United States

### Bachelor of Engineering - Computer Science and Engineering

Chennai Institute of Technology

CGPA : 9.40 out of 10

2019 – 2023

Chennai, India

## PROFESSIONAL EXPERIENCE

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### Research Intern

04/2022 – 05/2023

Dr. Manirul Ali - Center of Quantum Science and Technology

- Coauthored a research paper titled “Coherence crossover dynamics in the strong coupling regime  $\otimes$ ”.
- Focused on implementing the decoherence dynamics of continuous-variable quantum systems using FORTRAN.

### Cyber security intern

10/2021 – 03/2022

Proelium Analytics

- Conducted security audits on the web application to identify vulnerabilities.
- Recommended improvements in security systems and procedures
- Reviewed violations of computer security procedures and developed mitigation plans.

## PROJECTS

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### Prediction of commodity prices using hybrid model of ARIMA and LSTM

- Gathered and cleaned historical commodity price data for analysis. Conducted in-depth EDA to identify trends, seasonality, and outliers in the data.
- Combined ARIMA and LSTM models to leverage their respective strengths, enhancing prediction accuracy.
- Deployed the trained model to provide real-time commodity price forecasts, enabling timely decision support.

### IBM Project - Detection Of Parkinson Disease using Data science $\otimes$

- Created a user-friendly interface for healthcare professionals to input patient data and receive real-time predictions, facilitating early diagnosis and intervention.
- Implemented rigorous data cleaning procedures, including handling missing values, outlier detection and removal, and standardization of variables, ensuring that the dataset was reliable and suitable for analysis.

### Fake News Detection using Machine Learning

- Developed a sophisticated machine-learning solution to address the critical issue of fake news in the digital era.
- Responsible for data cleaning and Model training

## PUBLICATIONS

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### Coherence crossover dynamics in the strong coupling regime [↗](#)

*Physica A: Statistical Mechanics and its Applications*

- Collaborated with experts from diverse backgrounds, including quantum physicists and computer scientists, to bridge the gap between theory and practical quantum computing implementations.
- Applied computational skills to implement and simulate quantum bits (qubits) using MATLAB, contributing to developing and testing quantum algorithms.
- Co-authored a publication detailing the findings and implications of the research.  
(DOI:10.1016/j.physa.2023.128520)

## SKILLS

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- Machine learning/ Artificial Intelligence
- Languages : Python, C, C++, Flutter, Java
- TensorFlow, Scikit-Learn, Keras
- Pandas, NumPy, Matplotlib / Seaborn
- Apache Spark, Hadoop
- Deployment: Flask, Streamlit

## CERTIFICATIONS

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|--|---|---|
| • ISC2 CC Certified in Cybersecurity <a href="#">↗</a> | • Ethical hacking master course – udemy <a href="#">↗</a> | • Introduction to TensorFlow for Artificial Intelligence, Machine learning, and Deep learning by Laurence Moroney- coursera <a href="#">↗</a> |
| • Cyber Security Essentials <a href="#">↗</a>          | • Demystifying Networking- NPTEL                          |   |

## VOLUNTEERING ACTIVITIES

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<b>Young Mind Coders   University of Texas and Dallas &amp; Chennai Institute of Technology</b>	05/2021 – 08/2021 Chennai, India
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- Mentored hundreds of high school students in Python programming.
- Handled doubt-clearing sessions regularly.

<b>Logistics Team Head - HACKERZ Technical Symposium 22'</b>	02/2022 chennai, India
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- Led the development of a comprehensive logistics strategy, outlining key objectives, timelines, and resource allocation for the event.
- Collaborated with vendors and suppliers to negotiate contracts, monitor service quality, and resolve issues promptly.

## HONORS

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<b>Received 80% merit based scholarship</b> <i>Chennai Institute of Technology</i>	07/2019
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