KUMAR RAHUL

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EDUCATION

B. TECH (Electrical and Computer Engineering)	2020-2024	Delhi Technological University, New Delhi	9.26 CGPA
CBSE (Class XII)	2019	Chand Ram Public Senior Secondary School	88.6%
CBSE (Class X)	2017	Manas Sthali Public School	10 CGPA

INTERNSHIPS

Research Analyst | Mitacs Globalink Intern'23 | University De Moncton, Canada | Certificate | May 2023- Aug 2023
- Worked on the project **Weak Measurements for determining Quantum State of Photons.**
- Currently Working as a Data Analyst and Research Intern.
- Captured Data through NI Hardware and implemented it on Python using the Pandas, NI-DAQmx, PyFirmata, SciPy, matplotlib library for Data Acquisition and Analysis and obtained results up to 95% accuracy.

Innovative Infotech Pvt Ltd, Malviya Nagar, New Delhi | Data Analyst | Jun 2022-Aug 2022
- Performed extensive **data cleaning, transformation, and validation** to ensure data accuracy and integrity for various stocks.
- Conducted in-depth Exploratory Data Analysis (EDA) to uncover meaningful insights, trends, and patterns in the data.
- Collaborated with cross-functional teams to understand business requirements and translate them into data-driven solutions.
- Prepared and delivered comprehensive reports and presentations to communicate findings and recommendations to management.

Research Analyst |DRDO, Ministry of Defense, Government of India |Quantum Cryptography |Certificate| Nov 2021-Jan 2021
- Proficient in Quantum Cryptography concepts, including Encryption and Decryption algorithms and protocols.
- Experienced with Qi-skit and IBM for Quantum Computing, as well as analyzing captured traffic using Wire-Shark.
- Conducted in-depth research on Qubit, superposition state, Quantum Key Distribution (QKD) Protocols, Quantum entanglement, and quantum gates.
- Applied knowledge to program and implement complex gates for Ethical Hacking purposes.

ACADEMIC PROJECT

Quantum Photonic Data Analysis [GitHub: https://bit.ly/WeakMeasurements]
- Utilized NI DAQ 6361 hardware device in timing mode for **data acquisition** & Employed **Python** for comprehensive **data analysis**
- Achieved accuracy of **95%** in measuring time delay between two photons from a pulsating laser
- Conducted experimentation with varying distances between photons to observe quantum interactions
- Utilized **Matplotlib library** for effective visualization of results

ForecastNET : Stock Prediction With Stacked LSTM [Github: https://bit.ly/3P7SdzB]
- LSTM model works efficiently with scaled values of data, so it was scaled with MinMaxScaler using sklearn.preprocessing library
- The dataset was then split into training and test set with 80 % of data for training while 20 % for testing
- LearningRateScheduler was used as a callback. With the help of callback, we can customize our model; I was able to decrease the learning rate by 2% after every two epochs using LearningRateScheduler.

TECHNICAL SKILLS

- **Programming Languages/Technologies:** C, C++, Python, MATLAB, Arduino, Data Analysis
- **Modules:** NumPy, Pandas, Matplotlib, Scikit-learn, SciPy
- **Proficient in** Data Structures & Algorithms, Operating Systems, Database Management Systems and OOPs, IOT Technology, Robotics. MS Word, MS Excel PowerPoint, Canva and SQL
- **Soft Skills:** Creative Writing, Public Speaking, Team management

EXTRACURRICULAR ACTIVITIES

- **Flipkart Grid | Theme: Meta Commerce- The Future of Shopping with Metaverse |**
  - Participated in Flipkart Grid 4.0, competing against 140000+ participants across the country and made a place into the semifinals.
- **Volunteer | Outreach and Extension DTU & IIF DTU |**
  - Successfully organized DTU's Open House event, hosting 12,000 school students exploring campus, emphasizing higher education and tech.
  - Planned & executed a successful 4-day event at EDII Ahmedabad, with 40 participants, managing tickets, stay, food supply, and visits.

POSITIONS OF RESPONSIBILITY

- **Placement Coordinator**
  - Coordinated and supervised pre-placement talks for a diverse pool of 600+ students.
  - Successfully managed intern and full-time employment (FTE) procedures for a large group of students.
- **Convener ICAPIE**
  - Led a team of 200+ volunteers in approaching sponsors from various brands for the conference, successfully raising funds in cash and kinds and actively contributed to the conference by anchoring the entire event held at NIT Delhi.

ACADEMIC ACHIEVEMENTS AND AWARDS

- MITACS Globalink Research Scholar
  - Proud recipient of the MITACS Globalink Research Scholarship, a highly competitive and prestigious program.
  - Engaged in cutting-edge research as a MITACS Globalink Research Scholar among a select group of 100 students.
- Published a Research Paper on Maglev Technology in **IRJMETS Journal**
- University Rank 2 **out of 2400+** students in Second Semester (C.G.P.A 9.9)