GALI TARUN ROSHAN

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SKILLS

- **Languages:** Python, Java, C/C++, JavaScript, HTML and CSS.
- **Tools/Platforms:** MySQL, Tableau, Jupyter Notebook, Vs code, Scikit-learn, Pandas
- **Soft Skills:** Hyperfocus, Self-Motivation, Follow-through, Attention to Detail.

TRAINING

- **Data Structures and Algorithms - Self-Paced by GFG** — June 2024
  - Learned core and sophisticated Data Structures & Algorithms including arrays and linked lists as well as stacks and queues and binary trees and heaps and graphs to develop their problem-solving abilities.
  - Optimized program solutions through implementation of sorting techniques that included Quick Sort and Merge Sort as well as searching algorithms Binary Search and Linear Search together with dynamic programming and backtracking and greedy algorithms.
  - Utilized my practical coding skills to create multiple projects including Sudoku Solver, Shortest Path Finder Dijkstra's Algorithm and Tic Tac Toe AI using Minimax.

PROJECTS

- **Countdown Calculator** — Nov' 2023
  - Developed a feature-rich Countdown Calculator that assists users in time difference calculation, time zone conversion and event countdown operations through extensive time-based analysis.
  - Managed time integration through functional synchronization generated an interface that enabled worldwide productivity control.
  - Performed algorithms of advanced complexity provided precise countdown features which made the tool serve as an efficient tracking system for deadlines and upcoming events.
  - **Skills gained:** Application Development, Time-based Calculations, User Interface Design.

- **Full Mesh Topology** — Nov' 2023
  - Utilized Java programming to analyze network communication models and implement Full Mesh Topology for node-to-node direct links that boosted data exchange performance alongside security measures.
  - Engineered a decentralized network model featuring maximum connectivity together with fault tolerance and low network latency for high-speed data transmission.
  - Created a simulation model to help demonstrate the effectiveness of the topology through visual testing which proved its benefits for high-availability and high-redundancy networks.
  - **Skills gained:** Network Modeling, Full Mesh Topology Implementation, Simulation & Testing.

- **EDA on Global Terrorism Database** — Aug' 2024
  - Analyzed the Global Terrorism Database through Exploratory Data Analysis (EDA) using Python to identify worldwide terrorism patterns together with statistical trends about incidents.
  - Created data visualization methods using heatmaps along with bar graphs and time-series plots to study attack types and their locations while understanding geographical regions and timeline distributions.
  - Performed data preprocessing and visualization was done with Panda, Matplotlib and Seaborn which allowed for better understanding of terrorism drivers and their worldwide effects.
  - **Skills gained:** Data Visualization, Statistical Analysis, Data-driven decision-making, Analytical thinking.

- **Cardiovascular Disease Prediction** — Feb' 2024
  - Analyzed an exploratory dataset of cardiovascular health data detected meaningful correlations along with significant health parameters.
  - Tested and assessed different machine learning algorithms to detect cardiovascular disease probability.
  - Evaluated performance metrics, and proved that Random Forest is to be the selected for model prediction.
  - **Skills gained:** Data Analysis, Machine Learning Model Selection, Performance Evaluation, Critical thinking, Decision-making.

CERTIFICATES

- **The Bits and Bytes of Computer Networking** - by Coursera — April 2024

ACHIEVEMENTS

- **Achieved 3-star rating in Problem Solving** — Sept' 2023
  on hackerrank

- **Volunteer - DREAM NGO** — Jan' 2024

  Helped coordinate community programs, awareness generation, and assistance to disadvantaged groups.

- **Group Discussion on Zero Hunger** — Sept' 2023
  Actively participated and contributed to a structured GD on 'Zero Hunger', examining the connection between poverty, economic inequality, and equitable wages.

EDUCATION

- **Lovely Professional University Punjab, India** — Punjab, India
  Bachelor of Technology - Computer Science and Engineering (Data Science with ML) (Since 2022)
- **Sri Abhida Institute** — Hyderabad, Telangana
  Intermediate; Percentage: 88% (2020 - 2022)
- **Sri Chaitanya Techno Curriculm** — Hyderabad, Telangana
  Matriculation; Percentage: 100% (Completed 2020)