HARSHAN M V

22PD14

Gender	Male
Date of Birth	07th October 2004
Languages known	English, Tamil, Hindi, Telugu
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Address
Willow 1-C, Mayflower Estates,
Uzhaippalar Street, Vellakinar Village,
Coimbatore, Tamil Nadu - 641029.

OBJECTIVE

To obtain a position as an intern for a period of six months from May 2025 to November 2025.

ACADEMIC QUALIFICATION

Currently pursuing 3rd year of 5 year Integrated M.Sc. Data Science at the Department of Applied Mathematics and Computational Sciences at PSG College of Technology.

SKILL SET

Languages	Python, C++, Oracle SQL
Libraries	NumPy, Matplotlib, Flask
Tools	Oracle, Power BI, Spyder, Figma

AREAS OF INTEREST

- Supervised Machine Learning
- Data Visualization and analytics
- Computational Biology

ACADEMIC RECORD

- **M.Sc. Data Science** — *2022-2027*
  PSG College of Technology, Coimbatore — **8.43 CGPA**

- **XII (Higher secondary, CBSE)** — *2022*
  Emerald Valley Public School, Salem — **90.17 %**

- **X (SSLC, CBSE)** — *2020*
  Emerald Valley Public School, Salem — **89 %**

INDUSTRY-BASED PROJECT EXPERIENCE

- **Cloud Desk** | Data Science Intern *(May 15, 2024 to June 15, 2024)*
  Took up the position of a data science summer intern at Cloud Desk, Chennai. Had Gained valuable insights on project management and collaborative workflow in the corporate environment. Furthermore, I had worked with technologies of Power BI and Oracle SQL. Designed an interactive power BI report for the company.

NON-ACADEMIC PROJECTS

- **Cure for Monkeypox through Biotechnological Methods (Research)**
  Currently doing research to find the cure for monkeypox virus using various biological and computational techniques. Makes use of several databases like Swiss Target prediction, DDBJ, NCBI etcetera. Mathematical concepts including but not limited to graph theory was implemented for the aforementioned. The end result is to form a graph having interactions with various genes and to find the most influential gene for the phytochemicals to act upon. The biological plant chosen is Tinospora Cordifolia.

ACADEMIC PROJECTS

- **Quantum Computing**
  Analyzed the means to encode the information using qubits of the quantum circuits by leveraging the modules provided in the **IBM's qiskit library**. The image compression was done by passing the qubits inside the encoding quantum circuit via bottleneck layer. Cost function was calculated using the swap test and the **qiskit.quantum_info's Statevector** was used for the virtual quantum interface.

- **Resource Constrained Project Scheduling problem**
  The problem was solved using **dynamic programming** where a completion of a project involves completing a group of tasks. The probability of task completion is taken in the form as a transition probability matrix. We exhaustively search all possibilities to find the sequence of task that has to be completed to minimize the cost, thus modelling it as an optimization problem.

- **Weather Forecasting Application**
  Developed a weather system where **HTML, CSS, JavaScript**, was used along with **Python Tkinter** thus implementing a hybrid model for the front-end and implementing **web scraping** concept in python to get live weather data from an external website. The hybrid model was created using python Flask.

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Participated and won a variety of MUNs. The founder of GDMUN, an organization aimed to make people aware of United Nations.
- Furthermore, I have participated in and won several debate competitions.
- Was selected as the judge at IIMUN, and backed a sponsored trip to attend the conference.
- RJ at the PSG Community Radio 107.8 and was awarded "The Foreign Descent" for my English Proficiency.
- Elected as the class representative for the academic year 2022.

DECLARATION

I, Harshan M V, do hereby confirm that the information given above is true to the best of my knowledge.

Place: Coimbatore
Date : 31/08/2024 (Harshan M V)