BRINDHA SARATHI M

22PD08

Gender	Female
Date of Birth	22nd June 2005
Languages known	English, Tamil
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Address
8/1, Cell Corner, Gandhi Kadai street,
Vagarayampalayam, Coimbatore,
Tamil Nadu - 641659.

OBJECTIVE

To obtain a position as a student 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	C++, Python, SQL
Tools	Power BI, Gephi
Libraries & Frameworks	Python flask, Streamlit

AREAS OF INTEREST

- Data Analytics
- Supervised learning
- Predictive Analytics

ACADEMIC RECORD

- **M.Sc Data Science** — *2022-2027*
  PSG College of Technology, Coimbatore — **8.28 CGPA**
- **XII (Higher secondary, CBSE)** — *2022*
  ARB International School, Pollachi — **97.00 %**
- **X (SSLC,CBSE)** — *2020*
  ARB International School, Pollachi — **96.80 %**

NON-ACADEMIC PROJECTS

- **Smart Maritime Navigation System**

  Developed a **dynamic programming** framework using **Python** for ship route optimization, minimizing travel cost using bottom-up approach while avoiding obstacles and adhering to course change constraints.Backtracking is implemented by following the predecessors of the lowest-cost states, ensuring the most efficient route is selected.

ACADEMIC PROJECTS

- **Quantum AutoEncoder**

  Leveraging Quantum ML and **Python**, developed a project which compresses quantum states with a parametrized encoder, **reducing dimensionality** through a bottleneck layer and reconstructing the state via a decoder. The model encoded and decoded digits, and also denoised sine waves, demonstrating its effectiveness for compression and noise reduction in quantum systems.

- **Document Classification**

  Utilizing the **BERT** model and **Python** language, developed a legal document classifier ensuring accurate categorization. Additionally, the **BART** model was employed to generate concise summaries of the document.

- **SkyCast**

  Developed an application using Python **web scraping** to gather real-time data from OpenWeatherMap website. Used **HTML, CSS, JavaScript** and **Tkinte**r for the frontend and **Flask** for the backend.Visualized historical data to analyze patterns and make predictions.

- **Digital Library Management Platform**

  Designed a dynamic E-library platform using **HTML, CSS** for the front-end, **PHP** for the backend, and **MySQL** for efficient database management. The system features distinct panels for admins, students and new registrations. Admins can add books, manage comments, and oversee library content, while students can request books, and leave comments and the registration page for new student registrations.

EXTRA-CURRICULAR ACTIVITIES

- Secured first place in **zonal-level Volleyball** tournament.
- Represented the school as a **Handball player,** competing at zonal-level.

DECLARATION

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

Place:Coimbatore
Date :19/11/2024

(Brindha Sarathi M)