DIRAVINA E I
22PD12

Gender	Female
Date of Birth	30th December 2004
Languages known	English, Tamil, Hindi
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Address
28, Balu Garden, Shoba Nagar Road,
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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, C
Libraries & Framework	Django, NetworkX, Scikit-learn, TensorFlow, Pandas, BeautifulSoup
Tools	Power BI, Gephi, Git, R

AREAS OF INTEREST

- Supervised & Unsupervised Learning
- Database Management Systems
- Data Structures and Algorithms
- Data & Business Analytics

ACADEMIC RECORD

- **M.Sc Data Science** — *2022-2027*
  PSG College of Technology, Coimbatore — **8.13 CGPA**

- **XII (Higher secondary, CBSE)** — *2022*
  PSG Public Schools, Coimbatore — **90.40 %**

- **X (CBSE)** — *2020*
  PSG Public Schools, Coimbatore — **94.80 %**

INDUSTRY BASED PROJECT EXPERIENCE

- **Axicom IT LPP** | Data And Business Intelligence Intern   (*May 2nd-June 29th 2024*)
  Developed an **Pigeon - Rack System,** with an automated allocation system using **Power Apps** embedded within **Power BI**. The system utilizes barcode scanning to identify IDs and dynamically allocate storage locations. Through real-time data-driven logic, the system optimizes inventory management by accurately and efficiently assigning racks and columns based on scanned IDs.

NON-ACADEMIC PROJECTS

- **MagnetRx - Pain Relief Analysis**

  Using **R**, Pain management is analyzed using **active versus placebo magnets**, with statistical methods including **hypothesis testing (t-tests)** and **linear regression models** to evaluate effectiveness and identify significant differences in pain ratings.

- **FiscalVista - Banking Insights**

  Designed an advanced, interactive Power BI dashboard integrating multi-dimensional analysis of banking metrics, including granular client segmentation, deposit behavior trends, and loan portfolio performance. Leveraged DAX functions, data modeling, and dynamic visualizations in banking operations.

- **ProPathMaster - Project Management**

  Implemented in **C++**, This application leverages the **Critical Path Method (CPM)** for **project scheduling**. Users input activity details, dependencies, and durations to calculate key scheduling parameters and identify the critical path for optimized project management.

ACADEMIC PROJECTS

- **TwinNet - MammoDetect**

  Designed a mammogram classification system using **Siamese neural networks** with optimization through data augmentation, oversampling, and hyperparameter tuning. Integrated a **Streamlit-based GUI** for interactive diagnosis and employed early stopping to enhance accuracy by 5% and prevent overfitting.

- **SignBridge - Real Time Gesture Recognition**

  Designed a real-time sign language recognition system leveraging Histogram of Oriented Gradients (HOG) features with **SVM** and **KNN** classifiers. Enhanced accuracy through feature scaling, and hyperparameter tuning, integrating live video prediction and a user-friendly GUI for seamless communication. Optimized the system for real-time performance, supporting sign language communication.

- **BloomFind - Search Engine**

  Developed a text search engine using a **Bloom filter** for fast and space-efficient lookups with controlled false-positive probability. Calculated true/false positives and negatives to evaluate and optimize the filter's reliability, ensuring accurate text search. Results were validated with **binary search**, leveraging **SHA256 (hashes)** for reliable data handling.

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Successfully completed a **Full-Stack Web Development** course on Udemy
- An active member of the **National Service Scheme (NSS),** contributing to various social service activities focused on community welfare and development.
- As a member of the **Spic Macay Heritage Club**, my participation focuses on promoting India's rich cultural heritage through workshops, performances, and awareness programs.
- Proficient **Bharatanatyam Dancer** and skilled **Carnatic Singer** with extensive training and performance experience.

DECLARATION

I, DIRAVINA E I, do hereby confirm that the information given above is true to the best of my knowledge.

Place: Coimbatore

Date : 18/01/2025 (DIRAVINA E I)