DHARANI S
22PD11

Gender   Female
Date of Birth   29th November 2004
Languages known English,Tamil
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Address
1/83, Kurumbapatti, Sendamangalam,
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OBJECTIVE

To obtain a position as a student intern from May 2025 to November 2025.

ACADEMIC QUALIFICATION

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

SKILL SET

Languages	C++, Python ,C
Modules	OCR, Tensorflow, Scikit-learn , Streamlit
Tools	Power BI, Gephi, MySQL

AREAS OF INTEREST

- Data Analytics
- Supervised Learning
- Data Visualization
- DBMS

ACADEMIC RECORD

- **M.Sc. Data Science** *2022-Present*
  PSG College of Technology, Coimbatore **7.59 CGPA**

- **XII (Higher secondary, State Board)** *2022*
  SRGDS Matric. Hr. Sec School, Tiruvannamalai **95.16%**

- **X (SSLC, State board)** *2020*
  Sishya Matric. Hr. Sec School, Tiruvannamalai **95.6 %**

NON-ACADEMIC PROJECTS

- **ChurnScope**, leverages **SQL Server**, **Power BI**, and **Python** to deliver a comprehensive analysis of telecom-customer churn. It integrates **data visualization**, **trend analysis**, and **Random Forest prediction model**, enabling businesses to derive actionable insights and implement effective customer retention strategies.

- **NatureNarratives**, analyzes Twitter data to explore public sentiments on environmental sustainability. Tweets were web-scraped from Bardeen.ai, then preprocessed and subjected to **BERT**-based sentiment analysis to classify opinions as positive or negative. Various social network analysis techniques were performed and visualized using **Gephi** to reveal human-environment interactions.

ACADEMIC PROJECTS

- **ImageInsight**, an object detection and text recognition system using **YOLOv8**, **Keras OCR** on subset of COCO dataset. Integrated the models into a Streamlit web application for real-time image input and processing.

- **SuperStore360**, utilizes the Superstore dataset to perform an in-depth analysis of sales and customer behavior. It combines **Streamlit** for building an interactive Python-based web app and **Power BI** for advanced visualizations and dashboards, enabling dynamic exploration of key metrics such as profits, regional performance, and product trends. The integration provides actionable insights for **data-driven decision**-making in retail management.

- **FederatedSpamFilter**, an email spam detection system by implementing privacy preserving techniques such as **Differential privacy** and **Federated Learning** to train **Naive Baiyes, MLP** models across decentralized data sources without sharing raw data. Also Implemented NLP's **nltk** libraries for feature extraction.Enhanced data privacy and scalability in detecting spam across diverse user environments.

EXTRA-CURRICULAR ACTIVITIES

- **Throwball Player,Handball goalie** in school .
- Former **Publicity Team Head** at Radio Hub Club,PSG College of Technology.
- Served as **Deputy Coordinator for Publicity** in college-level tech events.
- Volunteered as an **organizer** for the PSG SarvaJana School Reunion 2024.

DECLARATION

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

Place: Coimbatore
Date: 11/02/2025   (Dharani S)