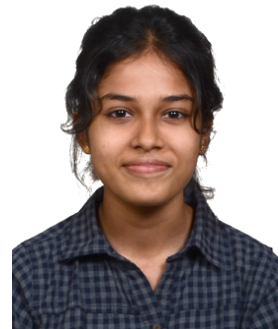


NOOR FATHIMA

22PD26

Gender Female
Date of Birth 14th August 2004
Languages known English, Hindi, Tamil
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Address

Flat No. A-314, Shriram Vijaya Hyyde Park Apartments,
Avarampalayam, Peelamedu,
Coimbatore- 641 004

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++, C, SQL
Libraries and Frameworks	NetworkX, Scikit-learn, Pandas
Tools	Gephi

AREAS OF INTEREST

- Data Analytics
- Data Structures and Algorithms
- Supervised and Unsupervised Learning
- Data Visualization

ACADEMIC RECORD

- **M.Sc Data Science** 2022-2027
PSG College of Technology, Coimbatore **8.42 CGPA**
- **XII (Higher secondary, CBSE)** 2022
Suguna PIP School, Coimbatore **92.00%**
- **X (CBSE)** 2020
PSG Public Schools, Coimbatore **93.60%**

INDUSTRY BASED PROJECT EXPERIENCE

- **SolutionChamps Technologies Ltd.** | Machine Learning Intern (May - June 2024)
Worked on **Deepfake Detection** in the domain of **Machine Learning**. Led the data collection and preprocessing phase of the project. Collected and organized a balanced dataset of genuine and fake videos, processed frames, and prepared data for training machine learning models.

NON-ACADEMIC PROJECTS

- [PathMaster - Project Management](#)
Developed 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.
- [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.

ACADEMIC PROJECTS

- [MammoDetect - Breast Cancer Detection](#)
Developed a **breast cancer detection system** using a **Siamese neural network** to classify mammograms. Optimized performance with data augmentation, oversampling, and hyperparameter tuning. Deployed a **Streamlit-based GUI** for interactive image comparison and diagnosis. Implemented early stopping and model checkpointing to improve accuracy and prevent overfitting.
- [GestureNet - Sign Language Recognition](#)
Developed a real-time sign language recognition system using HOG features with **SVM** and **KNN** classifiers. Focused on improving accuracy through data augmentation, feature scaling, and hyperparameter tuning. Integrated a live video feed for gesture prediction and implemented a GUI for user interaction. Optimized the system for real-time performance, supporting sign language communication.
- [BloomSearch - Text 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

- **National Cadet Corps (NCC)**
Completed "A" Certificate, participated in drills, community service, and leadership activities.

DECLARATION

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

Place: Coimbatore
Date : 20/11/2024

(Noor Fathima)