

## POORVIKA C 22PD10

Gender Female  
Date of Birth 23<sup>rd</sup> April 2005  
Languages known English, Kannada and Telugu  
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### Address

20/90/2/202, Raichoti Vishwanatham Colony,  
Adoni, Kurnool, Andhra Pradesh - 518301

## 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 3<sup>rd</sup> 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++, C, Python, Java
Tools	Power BI, Gephi

## AREAS OF INTEREST

- Data Analytics
- Full Stack Development
- Supervised Learning

## ACADEMIC RECORD

- **M.Sc. Data Science** 2022-2027  
PSG College of Technology, Coimbatore **7.67**
- **XII (Higher secondary, State board)** 2022  
Deeksha Junior College, Hyderabad **98.70 %**
- **X (SSLC, State board)** 2020  
Kiddy's E.M High School, Adoni **98.83 %**

## NON ACADEMIC PROJECTS

- [TaskNet](#)  
Built a task management system using a **Flask RESTful API** and threaded socket server for real-time communication. Integrated user authentication, task handling, and live updates with JSON-based data persistence.
- [FraudCatcher](#)  
Created an **Adversarial Learning** framework for fraud detection, leveraging game-theoretic models, **Markov processes**, and **Random Forest**. Addressed class imbalance with **GMMs** and **SMOTE**, improving model robustness through iterative retraining.

## ACADEMIC PROJECTS

- [YOLOText](#)  
Developed 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.
- [PyramidFlow](#)  
Developed a directed graph analysis pipeline in Python with **NetworkX** to model hierarchical financial structures and apply motif detection and ERGM. Created interactive visualizations with PyVis and Matplotlib to extract insights on efficiency and risk management.
- [Pixelate](#)  
A Python based image compression and playback system using the **Quadtree algorithm** with customizable depth and interactive/automated features. It supports image selection, compression, and GIF generation to visualize the process.

## EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- A dedicated **Class Representative** for MSc Data Science at PSG College of Technology.
- Serving as the **Social Media Lead** of the Rotaract Club of PSG College of Technology.
- Represented the school as a kho-kho player in various tournaments and competitions.

## DECLARATION

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

Place: Coimbatore

Date : 20/11/2024

(Poorvika C)