

VALINCIA JOHN

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6/1, Tagore Nagar,
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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	C++ ,Python , SQL
Tools	VS Code , Oracle , Power BI ,Neo4j
Libraries and Frameworks	OpenCV , Streamlit , BeautifulSoup

AREAS OF INTEREST

- Data Structures and Algorithms
- Supervised and Unsupervised learning
- Computer Vision
- Data Analytics and Visualization

ACADEMIC RECORD

- **M.Sc Data Science** 2022-2027
PSG College of Technology,Coimbatore **7.57 CGPA**
- **XII (Higher Secondary , State Board)** 2022
Alvernia Matriculation Higher Secondary School,Coimbatore **95.5%**
- **X (SSLC, State Board)** 2020
St.Francis Anglo Indian Girls High School,Coimbatore **95.0%**

INDUSTRY BASED PROJECT EXPERIENCE

- **[24]7.ai | Data Science Intern** (May 2024 - August 2024)
Developed a system for detecting and masking specified regions in live or recorded video streams for single and multiple objects. SIFT-based feature detection and homography ensure accurate mapping of marked regions. Users can interactively mark fields on template images for dynamic redaction. **OpenCV** powers all image processing tasks, enabling real-time masking.

ACADEMIC PROJECTS

- **ImageLab**

ImageLab is an interactive image segmentation tool that allows users to explore and evaluate segmentation techniques like **K-means clustering** and **Sobel edge detection**. It enables contour detection from Sobel and applies them to K-means results for enhanced segmentation. Users can add noise to images to simulate real-world conditions, and download the processed segmented images for further analysis.

- **Cipheart**

Cipheart is an app implemented using Streamlit that predicts heart disease risk using Logistic Regression and Naive Bayes models. It integrates **CKKS homomorphic encryption** to ensure the privacy of sensitive health data during analysis. The app offers an intuitive interface, allowing users to securely make informed health decisions.

- **Payroll Management System**

This system automates payroll generation and tracks attendance using **React.js** for the frontend and **MySQL** for the database. It effectively monitors employee work hours, absenteeism, late arrivals, and early departures. Featuring a user-friendly interface, it simplifies payroll processes and ensures accuracy in managing employee compensation.

NON-ACADEMIC PROJECTS

- **Online Marketing Brand Framework Analysis**

Developed an online marketing brand analysis framework using web scraping and network analysis to evaluate web pages and social media content for brand popularity. The project built a graph-based network in Neo4j using search engine results (Google, Bing, Yahoo) and incorporated sentiment analysis and PageRank to rank web pages. It provides insights to optimize marketing strategies and identify the most effective advertising channels.

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Actively contributed to the administrative operations of the Radio Hub as a team member
- Accomplished classical Bharathanatyam dancer with a decade of intensive training
- Achieved proficiency up to Grade 2 in Keys From Trinity College , London
- Represented school at the National Level Debate Summit 2020 held at Lady Shri Ram(LSR) College , Delhi

DECLARATION

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

Place: Coimbatore

Date : 03/12/2024

(Valincia John)