Kamalesh Pantra
22PD15

Gender	Male
Date of Birth	1st August 2005
Languages known	English, Telugu, Tamil, Hindi
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Address

D.No-48/25-7 Venkatapura, 1st Block Koramangala,
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OBJECTIVE

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

ACADEMIC QUALIFICATION

Currently pursuing the 3rd year of 5-year Integrated M.Sc. in Data Science at the Department of Applied Mathematics and Computational Sciences, PSG College of Technology.

SKILL SET

Languages	C, C++, Python, SQL
Libraries and Framework	Scikit-learn, NetworkX, Tkinter, Streamlit
Tools and Technologies	Oracle, MySQL, Microsoft Power BI, Git

AREAS OF INTEREST

- Data Analytics and Visualization
- Supervised and Unsupervised Learning
- Database Management System
- Computer Networks

ACADEMIC RECORD

- **M.Sc Data Science** *2022-2027*
  PSG College of Technology, Coimbatore **7.72 CGPA**

- **XII (Higher secondary, State board)** *2022*
  Srinivasa Junior College, Tirupati **89.30 %**

- **X (SSC, State board)** *2020*
  Sri Chaitanya School, Tirupati **98 %**

INDUSTRY BASED PROJECT EXPERIENCE

- **Learner Circle** | Data Science Intern *(May 2024 – June 2024)*
  Conducted **Exploratory Data Analysis** (EDA) on student response data to uncover key trends. A predictive model was developed using machine learning techniques like **Random Forest** to recommend personalized career interests. The model was built and evaluated using **Pandas**, and **Scikit-learn**, providing a foundation for potential future deployment.

NON-ACADEMIC PROJECTS

- **[SyncSketch](#)**

  Built a real-time collaborative drawing application using **Python**. The project included a server to manage connections and data sharing, and a **Tkinter-based** client interface for drawing. Used **sockets** for communication and **threading** for handling multiple users simultaneously. Focused on creating an interactive and user-friendly experience.

- **[EduScore Insights and Prediction](#)**

  Analyzed student performance data to understand how demographics and test preparation influence academic outcomes. Explored **trends and patterns** in the data to gain meaningful insights. Built and **fine-tuned** machine learning models to predict scores in math. Worked with a dataset of 1,000 students to develop accurate predictions.

ACADEMIC PROJECTS

- **[PathOpt: Accelerated Navigation](#)**

  Developed a path-planning algorithm in **C++** leveraging **Dynamic Programming** with **Accelerating Nodes** for efficient robot navigation in dynamic environments. Ensured quick blockage detection, alternative path construction, and near-optimal performance in real-time scenarios.

- **[CollabGraph Dynamics](#)**

  Applied **Social Network Analysis** to study classroom interactions and their influence on learning outcomes. Analyzed study group networks to **identify patterns** and correlations with academic performance. Utilized **NetworkX** framework network metrics and visualization techniques for insights into educational dynamics.

- **[Voise-0-Vision-Assist](#)**

  Voice Over Vision Assistant for visually challenged, designed with **Flask** as its backbone integrates **Whisper, LLaMA 3, Gemini** models to process user queries in the form of voice commands, webcam-captured images or screenshots and responds through voice.

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- **Karate** Enthusiastic Practitioner for 2 years. Dedicated to maintaining physical fitness and cultivating discipline through regular training sessions.
- Awarded the Gold Medal in **ATSO** (Aptitude Talent Search Olympiad) 2018, recognizing exceptional analytical and problem-solving skills.
- Designed **posters** using **Lucidpress** for academic projects and event promotions, focusing on clear and engaging visuals. Enjoy experimenting with layouts and improving design skills through practice.

DECLARATION

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

Place: Coimbatore
Date : 21/11/2024   (Kamalesh.P)