AKASH KUMAR A

22PD03

Gender	Male
Date of Birth	06th March 2003
Languages known	English, Tamil,Malayalam
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350/2 Sri Ganapathy nagar,
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OBJECTIVE

To obtain a position as an intern.

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, R, SQL
Tools and Libraries	Power BI, Pandas, Numpy, Tensorflow, Sci-kit
Platforms	Windows, Linux

AREAS OF INTEREST

- Data Analytics
- Data Structures and Algorithms
- Object-Oriented Programming
- Supervised Learning

ACADEMIC RECORD

- **M.Sc Data Science** — *2022-2027*
  PSG College of Technology, Coimbatore — **6.0 CGPA**
- **XII (Higher secondary, CBSE)** — *2022*
  SJSV Matric. Hr, Sec School ,Coimbatore — **83.0%**
- **X (SSLC,State Board)** — *2020*
  SJSV Matric. Hr, Sec School ,Coimbatore — **80.0%**

ACADEMIC PROJECTS

- **Explainable AI for ADHD Diagnosis**

  Developed an **Explainable AI (XAI)** model to classify ADHD and Control patients using EEG data, incorporating Approximate Entropy to assess the complexity and regularity of behavioral patterns. Built and fine-tuned machine learning models like **Random Forest, SVM, and XGBoost**, achieving an accuracy of 88% with the Random Forest model. Leveraged **SHAP and LIME** to enhance model interpretability, providing actionable insights into predictions and decision-making for ADHD diagnosis and treatment.

- **Diabetes Prediction**

  This project, developed in **Python**, provides an innovative solution for diabetes management. It combines **predictive analytics**, **interactive visualizations**, and a **user-friendly interface** to empower users in monitoring and managing their health effectively.

- **Online Auction System**

  This platform uses HTML, CSS, and Django to create a smooth online auction experience. It offers an easy-to-use interface for bidding and selling, with a secure database for safe transactions.

NON-ACADEMIC PROJECTS

- **Weather Predictor**

  This **Python** program uses **Tkinter** for the interface and gets weather data from the **OpenWeatherMap API**. By entering a city name, users can view real-time weather details like temperature, condition, humidity, wind speed, and more in a simple, easy-to-use format.

- **Lung Cancer Analysis**

  This **Python-based** project uses the **Decision Trees** algorithm to classify lung cancer effectively. It enhances diagnostic accuracy by analyzing medical data for precise cancer categorization.

EXTRA-CURRICULAR ACTIVITIES

- I am an Inter Zonal Level Football Player.
- Certificate of Course Completion: Data Analytics by Linkedin Learning

DECLARATION

I, Akash Kumar A , do hereby confirm that the information given above is true to the best of my knowledge.

Place: Coimbatore
Date:17/10/2024

(Akash Kumar A)