BARATH S

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CAREER OBJECTIVE

To secure a job where I can apply my analytical and technical skills to solve real-world business challenges, gain hands-on experience with data-driven decision-making, and contribute to innovative projects in a dynamic, industry-leading environment.

EDUCATION

- **Bachelors of Engineering in Computer Science and Data Science**
  CMR Institute Of Technology, Bangalore
  8.56 GPA, 2027 (Pursuing)
- **12th standard :**
  Adarsh Matriculation Higher Secondary School, Vaniyambadi, TamilNadu
  91%, 2023
- **10th standard :**
  Adarsh Matriculation Higher Secondary School, Vaniyambadi, TamilNadu
  95%, 2021

TECHNICAL SKILLS

- **Programming Languages:** C, Python, HTML, CSS, React
- **Database:** SQL, MongoDB
- **Operating Systems:** Windows
- **Tools:** GitHub, Canva, VScode
- **MS Office:** MS Word, MS PowerPoint, MS Excel

PROJECTS

- **Credit Card Fraud Detection System**
  - Built a full-stack fraud detection system using a FastAPI back-end, React front-end, and Stream-lit analytics dashboard for real-time transaction monitoring.
  - Integrated a Random Forest machine learning model with preprocessing and confidence scoring to classify fraudulent vs legitimate transactions.
  - Developed interactive visualizations, fraud distribution analysis, and model performance insights through a dedicated data dashboard.
  - Designed a responsive, modern UI with real-time prediction features and deployed a scalable API architecture**.**
  - **Tech stack :** Python, FastAPI, Scikit-learn, Joblib, React.js, Material UI, Streamlit, Plotly, Pandas, NumPy, ML, AI

- **AI-Powered Disease Prediction**
  - Built a full-stack web application that predicts possible diseases based on user-selected symptoms using ensemble machine learning models**.**
  - Integrated symptom severity weighting, age & gender factors, probability-based top 3 predictions, and precaution recommendations.
  - Designed an interactive interface with searchable symptom selection and detailed disease information for better user understanding.
  - Tech stack : Python, HTML, CSS, ML

- **Hotel Management System**
  - Created a Python-based management system for bookings, food, laundry, and billing.
  - Automated invoice generation and room availability tracking.
  - Designed a modular system for smooth hotel operations.
  - Tech stack : Python
- **CapyCares – AI-Powered Peer Support Platform**
  - Developed a web-based platform providing students a safe space for emotional support, peer interaction, and counseling assistance.
  - Integrated an AI-driven chat-bot to detect mood patterns, hold comforting conversations, and escalate critical cases.
  - Designed interactive community spaces and motivational features like daily quotes and animations to promote positivity.
  - Tech stack : HTML, CSS, Python, ML, AI

CO-CURRICULAR & EXTRA-CURRICULAR ACTIVITIES
- **Hackathons:**
  - Fullstack Fiesta (Areta, Bangalore), February-2025
  - TechXcelerate (BITS Hyderabad), March-2025
  - MSME Idea Hackathon, August-2025
  - SIH Internal Hackathon, Sept-2025
- **Clubs:**
  - Serving as the Secretary in Higher Studies Club (2025-26)
  - Serving as the Soft-skills Lead Coordinator in CCA (2025-26)
- **Patent:**
  - Filed for patent on topic Eco-Friendly Modular Cold Storage Unit Using Sugarcane Bagasse Insulation Panels (Under Process).
  - Filed for patent on topic Reminder Key chain with Smart Vibration Alerts Based on Mobile Checklist (Under Process).
- **Certifications:**
  - Database and SQL for Data Science with Python
  - Divide and Conquer Algorithms
  - Introduction to Python and more
- **Fest:**
  - Organized Onotsav (Onam Fest at CMRIT)
- **Responsibilities:**
  - Member of Peer Support Team

AWARDS & ACHIEVEMENTS
- 2nd Prize – College Mini-project Competition for Weather Station & Wi-Fi Sensor Station with Dog Robot

PERSONAL DETAILS

Date of Birth	: 05-09-2005
Gender	: Male
Nationality	: Indian
Permanent Address	: 118, Nallan Street, Periyapet, Vaniyambadi, TamilNadu - 635751
Linguistic Competencies	: English, Tamil, Hindi
Hobbies	: Listening to music, Cooking, Project Making, Binge watching