KARTHIKEYAN V

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SUMMARY

Aspiring software developer and second-year CSE student with a passion for fintech innovation. Seeking an internship at PayPal to leverage my skills in Python, Java, and web development to create impactful solutions. Excited to contribute to PayPal's mission of democratizing financial services through technology.

EDUCATION

Kpr Institute of Engineering and Technology, Coimbatore, Tamil Nadu, India.   2023-2027
Bachelor of Engineering in Computer Science and Engineering GPA, 8.45/10

Notre Dame Of Holy Cross, Salem, Tamil Nadu, India.   JUN 2022
Higher Secondary Schooling, Percentage, 80.2

SKILLS

- **Programming Languages:** Python, Java, C, C++
- **Web Technologies:** HTML, CSS, JavaScript, Flask, Bootstrap
- **Data Tools**: SQL, PostgreSQL, Power BI,Tableau
- **Machine Learning:** Hugging Face, Lang Chain (basic knowledge)
- **Version Control**: Git, GitHub
- **Other Tools:** Jupyter Notebook, PL/SQL,VS code , Microsoft c++ build tools
- **Problem solving:** Leetcode, Geeks for Geeks,HackerRank – solved about more than 100 plus sums
- **Data Structures and Algorithms:** Java, Python, C.

WORK EXPERIENCE :

DATA SCIENCE INTERN AT COGNIFYZ
WEB DEVOLOPMENT INTERN AT COZNIFYZ
DATA ANALYTICS INTERN AT NOVITECH PVT LIMITED
AI INTERN AT NOVITECH PVT LIMITED
MACHINE LEARNING INTERN AT NOVITECH PVT LIMITED

PROJECTS

Project 1: Student Information Chatbot
Skills: *Python, Flask, PostgreSQL, SpaCy, Webdevelopment, Problem Solving*   OCT 2024 – PRESENT

- Developed a chatbot that provides students with their marks via a user-friendly interface.
- Designed a professional web interface using Flask for integration.
- Utilized PostgreSQL for managing student data and implemented NLP features using SpaCy.

Project 2: Pneumonia detector
Skills: *Python, TensorFlow*   SEP 2024 – OCT 2024

- Built an ML model to classify X-ray images for pneumonia detection with high accuracy.
- Conducted data preprocessing and model training using TensorFlow.

Project 2: US Hospitals PowerBI Report
Skills: *Power BI*   AUG 2024 – SEP 2024

- Created a detailed report visualizing hospital data, including beds, status, and geographical distribution.
- Used advanced Power BI features like interactive maps and slicers for data filtering.

Project 3: Heart Disease Prediction System   January 2025 – Present
Skills: Python, Flask, Machine Learning, Data Analysis, Pandas, Scikit-learn, Matplotlib, Seaborn, Problem Solving.

- Developed a machine learning model to predict the likelihood of heart disease using patient health data, achieving significant accuracy with a Gaussian Naive Bayes classifier.
- Preprocessed the dataset with advanced techniques, including feature encoding and train-test splitting, to ensure optimal model performance.
- Analyzed the dataset to identify key patterns and correlations, visualizing results through interactive charts and distribution plots using Matplotlib and Seaborn.
- Built an interactive Flask-based web application to provide users with an intuitive interface for inputting health data and viewing prediction results in real time.
- Designed visual dashboards to showcase insights, such as age and chest pain type correlations with heart disease prevalence, improving the interpretability of the results.

Project 5: Smart Attendance System   August 2024 – December 2024
Skills: Python, OpenCV, Flask, Machine Learning, Face Recognition, SQLite, Web Development, Problem Solving

- Developed a smart attendance system using face recognition technology to automate and enhance the accuracy of attendance tracking.
- Utilized OpenCV for real-time face detection and recognition, ensuring efficient and secure identification of individuals.
- Integrated a Flask-based web application to manage user data, attendance records, and admin functionalities via an intuitive interface.
- Employed SQLite as the backend database to store and retrieve user profiles and attendance logs efficiently.
- Designed visual reports to analyze attendance trends, enabling better decision-making and record-keeping for users and administrators.

ACHIEVEMENTS

- Completed **Python Programming course on GUVI**
- Completed **Programming in GUVI**
- Successfully presented a class project on **Power BI Visualization of Hospital Data**.
- Completed Machine learning **course on GUVI**
- Completed Data Analytics and Data visualisation in **GUVI**
- Successfully presented a Student Information System Chatbot project on **IEEE Project Expo National level Event.**
- Completed FullStack from **udemy**.
- Completed Gen Ai from **Coursera.**

EXTRACURRICULAR EVENTS

- Team Lead for college projects like **Student Info Chatbot, Pneumonia Detection** and **Power BI Reports**.
- Active participant in hackathons and coding challenges.