

M . Ramya

Python Developer



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🔄 Ramyadeveloper5

👤 PROFILE

Seeking a challenging role as a Python Developer proficient in both front-end and back-end development, with a keen interest in integrating machine learning capabilities to drive innovation. Dedicated to delivering high-quality, scalable solutions while continuously expanding expertise in machine learning techniques. Committed to leveraging advanced algorithms and models to enhance project outcomes and contribute to the development of cutting-edge solutions.

🎓 EDUCATION

Gojan School of Business and Technology

BE - Electronics and Communication Engineering.

Apr 2016 – Apr 2020 | Chennai, India

📜 CERTIFICATES

Full Stack Development - WHY Tap

- Enroll in a reputable full stack development program, complete coursework and hands-on projects, and earn your certificate upon successful completion.

🧠 SKILLS

Python 3.12

Machine Learning

Flask and Django Framework

Html 5

Css 4.15 & Tailwindcss v3.0

Javascript

React.js

Node 20.10.0

Express.js

MySql & Mongodb

Git

📁 PROJECTS

1. Cardiac Disease Prediction by using Machine Learning.

Implemented a machine learning model to classify and predict the presence or absence of cardiac disease in patients. Utilized various algorithms including Support Vector Machine, Random Forest, Decision Tree, Naive Bayes, and Logistic Regression to achieve accurate predictions. The primary objective was to develop a robust classification system for cardiac disease diagnosis.

Tools: Anaconda Prompt, Jupyter Notebook

Language: Python

Packages Utilized: NumPy, Pandas, Scikit Learn, Matplotlib, Seaborn.

Algorithms: Support Vector Machine, Random Forest, Decision Tree, Naive Bayes, Logistic Regression

Performance Metrics: Evaluated model performance using metrics such as Accuracy, Precision, Recall, and F1 Score to ensure the effectiveness of the classification system.

2. Sleep Apnea Disease Prediction by using Django Framework.

Developed a predictive model using Django framework to classify the presence or absence of sleep apnea in patients. Leveraged machine learning techniques within the Django environment to achieve accurate predictions. The primary goal was to create a reliable tool for diagnosing sleep apnea based on patient data.

Tool: Visual Studio Code

Language: Python

Frontend: HTML, CSS, JavaScript

Backend: Django



PROFESSIONAL EXPERIENCE

Full Stack Developer - MERN

WHY Global Services

Oct 2023 – Apr 2024 | Chennai, India

Roles and Responsibilities :

- Proficient in developing responsive web applications using MERN stack technologies (MongoDB, Express.js, React.js, Node.js).
- Experienced in designing and implementing user interfaces with HTML, enhancing styling with Tailwind CSS.
- Skilled in building RESTful APIs with Express.js to facilitate seamless communication between front-end and back-end systems.
- Capable of effectively managing MongoDB databases to ensure efficient storage and retrieval of application data.
- Collaborative team player, adept at working with cross-functional teams to deliver robust and scalable software solutions, while staying abreast of industry best practices.

Python Developer -Team Leader

Dik Technologies Private Limited

Jan 2021 – Sep 2023 | Chennai, India

Roles and Responsibilities :

- Providing technical guidance and expertise in Python programming and best practices.
- Planning and prioritizing project tasks, ensuring timely delivery and meeting quality standards.
- Utilized various libraries such as Pandas, NumPy, Scikit-Learn for data analysis tasks.
- Integrated third-party APIs into applications built with Python frameworks such as Flask or Django.
- Wrote detailed technical documentation outlining system architecture, coding conventions and best practices.

Packages Utilized: NumPy, Pandas, Scikit Learn (for machine learning)

Algorithm Employed: Random Forest

Performance Metrics: Evaluated model performance using metrics such as Accuracy and Result Prediction based on the presence or absence of the disease to ensure the effectiveness of the predictive tool.

3. Stress Analysis Prediction for IT Sector by using Django Framework.

Implemented a predictive model within the Django framework to analyze and predict stress levels (low, medium, high) among individuals in the IT sector. Utilized machine learning techniques to develop an accurate stress analysis tool. The aim was to provide insights into stress levels and assist in addressing potential issues proactively.

Tool: Visual Studio Code

Language: Python

Frontend: HTML, CSS, JavaScript

Backend: Django

Packages Utilized: NumPy, Pandas, Scikit Learn (for machine learning)

Algorithm: Random Forest

Performance Metrics: Evaluated model accuracy and effectiveness using metrics prediction based on stress analysis categories (low, medium, high) to ensure reliable predictions for users in the IT sector.

4. E-Commerce Website by using MERN.

Designed and developed a robust e-commerce platform utilizing the MERN stack for its reliability and responsiveness. Integrated MongoDB as the database to store user information, order details, and product data. Implemented a RESTful API backend with Express.js to facilitate seamless communication between the database and frontend components. Employed JWT (JSON Web Tokens) for user authentication and authorization, ensuring secure access to user-specific functionalities.

Frontend: React.js, Material-UI, HTML5, CSS3, JavaScript

Backend: Node.js, Express.js, MongoDB

Tool: Visual Studio Code

DECLARATION

I here by declare that all information said above is true to the best of my knowledge and belief.

Ramya . M
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