TAMILSELVAM A

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Profile

Enthusiastic and dedicated candidate with a passion for machine learning and software development. I bring a strong foundation in these areas, along with a willingness to learn and grow in this rapidly evolving field.

Certifications

Linear Regression and Logistic Regression in Python | *Udemy* *November 2022*
Introduction to Data Scienece | *Cisco* *November 2023*
Support Vector Machines in Python: SVM Concepts & Code | ***Udemy*** *April 2024*

Technical Skills

Languages : Python, MySQL, HTML,CSS
Frameworks : Node.js, Flask, ExpressJS
Libraries :Sckit-learn,Numpy,Pandas,Reactjs
ML Algorithms :Linear Regression,Logistic Regression,Descion tree,Support Vector Machine

Experience

Software Engineer | *Nuvolance Technologies* September 2023 – Present

- Utilized the Berry template to design and implement the user interface of our project, enhancing the visual appeal and user experience with pre-designed components and layouts.
- Created visually appealing and user-friendly interfaces by integrating Material-UI components, enhancing usability and improving the overall look and feel of the application.
- Collaborated with team members to design and implement RESTful API endpoints using Node.js and Express, adhering to industry best practices and standards for web API development.
- Enhanced database performance and efficiency by optimizing queries and schema design in SQL databases, facilitating smoother data storage and retrieval processes.

Education

Bharathiar University **Master of Computer Application** | CGPA : 8.2 *October 2021 - May 2023*
Thiagarajar College **Bachelor of Computer Science** | CGPA : 8.6 *June 2018 - May 2021*

Projects

ACADEMIC PROJECT:

Phishing-URL-Detection *March 2023*

- Designed and developed a user-friendly web interface using Flask, enabling real-time URL evaluation and phishing detection.
- Implemented and evaluated multiple machine learning algorithms, including decision trees, random forests, and support vector machines (SVM), to predict the likelihood of a URL being phishing.
- Conducted thorough evaluation and validation of the models using cross-validation techniques and performance metrics such as accuracy, precision, recall, and F1-score.
- Developed a web-based interface to interact with the trained models, allowing users to input URLs and receive real-time predictions on their legitimacy.

SELF LEARNED MINI PROJECTS:

Breast Cancer Prediction *January 2023*

- Utilized Python for breast cancer data analysis, with a primary focus on logistic regression.
- Leveraged logistic regression for binary classification to distinguish between malignant and benign breast cancer cases.

Terrorism EDA Analysis *December 2022*

- Conducted exploratory data analysis (EDA) on terrorism datasets using Python.
- Employed Python's data manipulation and visualization libraries to explore global terrorism trends.