Siva Prakash
Data Science Enthusiast

A motivated student, seeking opportunities where I can utilize my analytical, mathematical and technical skills to solve real life problems related to analyzing a big volume of datasets to draw insights that can help with business decisions.

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WORK EXPERIENCE

Data Science Tutor (Online)
Careergrowth360

09/2022 - 01/2023

Achievements/Tasks

- Provided personalized tutoring to students from diverse academic backgrounds and multiple colleges in Tamil, enhancing their understanding of **data science** and **machine learning** concepts.
- Designed comprehensive learning materials tailored to the individual needs of students, ensuring effective comprehension of complex topics.
- Organized interactive group discussions and collaborative problem-solving sessions among students, creating a dynamic learning environment.
- Stayed updated with the latest trends in data science and **machine learning** to provide cutting-edge insights and guidance to students.

Data Science Trainee
Goeduhub Technologies

05/2021 - 08/2021

Achievements/Tasks

- Collecting, Cleaning and Analyzing data using python's packages such as **numpy**, **pandas**, **matplotlib**, **seaborn**, **plotly** and **holoviews.**
- Resampling imbalanced datasets with various **over and under sampling methods** using python's **imbalanced-learn** package.
- Implementing various regression, classification and clustering algorithms on different datasets using python's **scikit-learn** package.
- Building content based recommender system using **cosine similarity** method using scikit-learn package.
- Deploying trained machine learning models using **flask** web framework and **render** cloud platform.

EDUCATION

Master of Computer Applications
College of Engineering, Guindy

10/2022 - Present

Bachelor of Computer Applications
Apollo Arts & Science College

06/2019 - 06/2022

Higher Secondary
Seventh Day Adventist Hr Sec School

06/2017 - 04/2019

SKILLS

Python · C++ · C# · Javascript · PostgreSQL · MongoDB · SQLite · Git/Github · Flask · FastAPI · Vue · Render · Google Cloud · Data Science · Machine Learning

PERSONAL PROJECTS

Pricefy
- Pricefy app is used to predict the price of the car based on car's present price, years, kilometers driven, no of owners, fuel type, seller type and transmission mode.
- Employed the **Frequency Encoding** technique to effectively encode categorical features, enhancing the model's ability to handle diverse input data.
- Trained a **Random Forest** model achieved an impressive *Explained Variance Score* of 98.59% and *R2 square score* of 98.58%, validating the model's high level of predictive power.
- **Source code :** https://github.com/Prakashdeveloper03/Pricefy
- **View app :** https://pricefy.onrender.com/

Diabetes Predictor
- Diabetes predictor is used to predict whether a person has diabetes or not based on no of pregnancies, glucose, blood pressure, skin thickness, insulin, body mass index, diabetes pedigree function and age.
- Addressed the challenge of an imbalanced dataset by implementing the **SMOTETomek** resampling technique ensuring balanced representation of both classes.
- Trained a **Random Forest** model achieved an impressive **Accuracy** of 97.15% and **F1 Score** of 97.23%, validating the model's high level of predictive power.
- **Source code :** https://github.com/Prakashdeveloper03/Diabetes-Predictor
- **View app :** https://diabetesclassify.onrender.com/

QR Code Generator
- QR code generator web application using **Blazor**, providing users with the capability to generate QR codes from text or URLs.
- Designed a modern and responsive user interface using **Blazor's components** and styles.
- Deployed the application through **Azure Cloud Web Service**, harnessing the power of Microsoft's cloud infrastructure to ensure optimal performance.
- **Source code:** https://github.com/Prakashdeveloper03/BlazorQR
- **View app:** https://qrcodeblazor.azurewebsites.net/

CERTIFICATES

Machine Learning Specialization - Coursera

Machine Learning Specialization on Google Cloud - Coursera