

# Sasikala Ramasamy



## Address:

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## **Objective:**

An aspiring data scientist seeking internship opportunities in a professional organization to implement data science knowledge with the understanding of statistical and mathematical concepts with the STEM Background

## **Technical Skills and Proficiency:**

- Strong Programming knowledge in R, RStudio and accessing R packages
- Knowledge in Tableau, and R Interactive Graphics such as ggplot2, googleVis, plotly, leaflet.
- Good knowledge in organizing data analysis to make it more reproducible and for report writing using Knitr, R Markdown and R Presentation and publishing in GitHub, Rpubs.
- Knowledge in building web application framework using RShiny.
- Knowledge in SQL(SQLite)
- Familiarity in Inferential statistics concepts such as Hypothesis Testing, p values, Confidence Intervals to make informed data analysis decisions and a good understanding in Linear Regression, Generalized Linear models (Logistic Regression).
- Knowledge in Machine Learning concepts and algorithms such as Decision Trees, Random Forests, K Nearest Neighbors (KNN), Principal Component Analysis (PCA) and Regularization.

## **Projects:**

U.S Public and Health Problems due to Storm and Bad Weather Events from 1950-2011: Created Interactive graphics by cleaning and pre-processing the data, and analysed the major events for the impact of the Public Health and Economic Crisis

## Prediction of Activity Execution of Unilateral Dumbbell Biceps Curl:

Implemented Decision Trees and Random Forests algorithm using caret package to find out the accuracy and the model performance of the algorithms and, predicted the activity of the unilateral dumbbell biceps curl with the young health participants

## **Education**

- MSc Applied Data Science (2021-2022) University of Essex, UK
- Master of Engineering in Power Electronics and Drives SNS College of Engineering, India.
- Bachelor of Engineering in Electrical and Electronics Engineering SSM College of Engineering, India.

## **Certifications in Coursera:**

- ✓ Data Science: Foundations Using R,
- ✓ Statistical Inference,
- ✓ Regression Models,
- ✓ Practical Machine Learning,
- ✓ Developing Data Products

## **Certifications in LinkedIn:**

- ✓ SQL Essential Training,
- ✓ Learning SQL Programming

## **R and python - Data Science For all - Online Training by the University of Essex:**

- ✓ Explored, Analyzed and Visualized the US Police Shooting Data and summarized the background and the region where the majority of the shooting took place.