# GURUMOORTHY

## Aspiring Data Scientist

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## SUMMARY

Aspiring data scientist with a background in mechanical engineering and a strong foundation in **machine learning**, **data analysis**, and **statistical modeling**. Seeking to leverage my skills in **Python**, **SQL**, and **data visualization** to contribute to data-driven **decision-making** and **problem-solving** in a dynamic organization.

## SKILLS

**Machine Learning** **Exploratory Data Analysis** **Teamwork** **Computer Science** **Algorithms** **Jupyter Notebook** **Keras** **Pytorch** **Data Visualizations** **Logistic Regression** **MatplotLib** **OpenCV** **Pandas** **Plotly** **Predictive Analytics** **Python** **Communication** **Scikit-Learn** **Seaborn** **TensorFlow**

## PROJECTS

### Data Science Job Market - Exploratory Data Analysis (EDA)

09/2024 - 10/2024

EDA on data science job market

- Identified top skills in demand for data science roles and the correlation between skills and salary levels. Analyzed the impact of location and experience on compensation within the data science job market.Visualized findings using interactive plots to provide actionable insights into the evolving trends in the job market.

### Stock Price Prediction

10/2024 - 11/2024 Location

Stock Price Prediction using Machine Learning

- Predicted stock prices of SAP using historical data
- Applied Linear Regression for feature selection and model evaluation
- Tools used: **Python, Pandas, Scikit-learn, Matplotlib**

### Water Potability Prediction

11/2024 - 12/2024

Water Potability Prediction

- Engineered a water potability prediction model leveraging pH, hardness, and sulfate levels, achieving 85% accuracy in identifying safe drinking water sources and mitigating potential health risks in communities.
- Tools used: **Python, Scikit-learn, Jupyter Notebook, Logistic Regression**

## KEY ACHIEVEMENTS

**Top Performer in Machine Learning**

Recognized as the top-performing student in a **machine learning specialization** with a **score of 80%** in the final assessment.

**Developed a Stock Price Prediction Model**

- Built a predictive model using linear regression to forecast stock prices, **achieving 70% accuracy.**
- Implemented using **Python, Scikit-learn, and Pandas.**

## INTERESTS

**Reading**

Reading **articles and blogs** related to **machine learning**

**Chess**

Enjoys playing chess as a **strategic hobby**

**Puzzle Games**

Solving **puzzles and brain teasers** as a relaxing activity

## EDUCATION

### B.E. in Mechanical Engineering (8.0 CGPA)

**PSN Institute of Technology and Science**

08/2019 - 05/2023 Tirunelveli

## LANGUAGES

**English**
Proficient

**Tamil**
Native

## PROJECTS

### Customer Segmentation

12/2024 - 01/2025

Customer Segmentation using K-means Clustering

- Implemented K-means clustering to segment customers based on annual income and spending score
- Tools used: **Python, Scikit-learn, Pandas, Matplotlib**

### Emotion Detection

01/2025 - 02/2025

Emotion Detection using Convolutional Neural Networks

- Developed a CNN model to classify facial emotions
- Tools used: **TensorFlow, Keras, OpenCV, Python**