THIRUMURUGAN R

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EDUCATION

Bachelor of Technology, Dhaanish Ahmed College Of Engineering	2020 - 2024

Field of Study: Artificial Intelligence and Data Science.
CGPA: 8.60/10

HSC, **Maharishi Vidya Mandir, Karaikudi**	2019 - 2020

Percentage: 62%.

SSLC, Sri Kalaivani Vidhyalaya Higher Secondary School, Karaikudi	2017 - 2018

Percentage: 83%.

SKILLS

Python - Libraries: pandas, matplotlib, numpy, scipy, Sickit learn

R Programming - Libraries: ggplot2, dplyr, tidyr

Power BI - Tools: DAX, API, power query, power pivot, data visualization, interactive graphs

SQL - Tools: SQLite, MySQL, SQL Server, Postgress, ETL

Microsoft Office Suite - Tools: excel (vlookup, hlookup, Pivot table), power-point, word

Machine Learning - Algorithms: Logistic Regression, Support Vector Machine, Decision Tree, KNN

Analytics - Concepts: descriptive, diagnostic, predictive, prescriptive analytics

Soft Skills:
- Problem Solving, Effective Communication, Documentation, Operations planning, Collaboration Skills,
- Deadline-driven, Present Reports, Requirement Gathering, Requirement Analysis, Capacity planning.

PROJECTS

Estimation and Prediction of Hospitalization and Medical Care cost – Personal Project   18 Hours

- **Problem:** High variability and unpredictability in medical care costs.
- **Role:** Developed predictive models for cost estimation.
- **Technologies Used: Python**, **machine learning algorithms, statistical analysis tools.**
- **Results:** Improved cost prediction accuracy by 30%, enabling better financial planning and resource allocation for healthcare providers.

Sales Price Analysis Using Machine Learning – Personal project   20 Hours

- **Problem:** Fluctuating sales prices affecting business strategies.
- **Role:** Led the development of a predictive model.
- **Technologies Used: Python, statistical analysis tools.**
- **Results:** Achieved a 27% increase in forecasting precision, informing better pricing strategies.

Financial Performance Analysis Using Power BI – Personal Project   10 Hours

- **Problem:** Inconsistent sales prices leading to unstable revenue and challenging business strategy formulation.
- **Role:** Project Lead responsible for developing and implementing a predictive sales price model.
- **Technologies Used:** Python, **statistical analysis tools, data visualization tools.**
- **Results:** Enhanced forecasting accuracy by 27%, which facilitated more effective pricing strategies and improved overall business decision-making.

Micro Irrigation By Integrating AI To Predict Crop Water Needs And Automate Valves – Team Project

- **Problem:** Inefficient water use in irrigation.
- **Role:** Developed an AI-integrated IoT system.
- **Technologies Used: IoT, AI algorithms.**
- **Results:** Increased irrigation accuracy by 20%.

Project Credential Links: Github/Thirumurugan240

CERTIFICATIONS

Data Analytics In R **(Udemy)**

IBM Cognos Analytics **(IBM)**

Medical Cost Analysis Using IBM Cognos Analytics Tool **(IBM)**

Data Science And Machine Learning Bootcamp With R **(Udemy)**

Data Visualization With Power BI **(Great Learning)**

Effective Communication **(Great Learning)**

Google Analytics Certification **(Google)**

Certificate Credential Links: LinkedIn/Thirumurugan R

RELEVANT WORK EXPERIENCE

Data Analyst Intern – VRG Technologies   2023

- **Data Collection & Cleaning:** Efficiently gathered and cleaned large datasets using SQL and Python, ensuring data accuracy and consistency for analysis.
- **Data Analysis:** Conducted exploratory data analysis (EDA) to identify trends, patterns, and anomalies, utilizing statistical methods and data visualization tools such as power BI and Excel.
- **Reporting & Visualization:** Developed comprehensive dashboards and reports to communicate insights and findings to stakeholders, aiding in data-driven decision-making processes.

LEADERSHIP EXPERIENCE

Secretary, Business Club & Administrator, Technology Research Incubation Center, Dhaanish Ahmed College of Engineering - Initiated the organization of impactful business events, fostering networking opportunities and professional development for club members.