

# Karan Manoharan

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## Experience

**Data and Machine Learning Engineering Intern, Tenacium DC, Present** United Kingdom

Project: Using previous year data, predicting fuel uses in UK for the next few years to handle influx in EVs

- Designing and implementing an automated ETL process using FluentD.
- Extracted, transformed, and loaded large volumes of energy consumption data from Java Application.
- Conducted data quality checks, implemented cleansing strategies, and created visualizations for analysis.
- Assessed the potential impact of increased electric vehicle adoption on the UK's energy infrastructure and determined if it can accommodate the anticipated influx of electric cars.

**Intern, Everest Stabilizers Private Limited, January 2022 – August 2022** India

- Developed predictive maintenance model, reducing downtime by 15% and saving \$50,000 in maintenance costs.
- Conducted data analysis on customer data, leading to targeted marketing campaigns and 10% increase in customer acquisition.
- Collaborated on building a recommendation system, improving customer satisfaction, and generating 12% upsell opportunities.
- Assisted in sales forecasting model using Time Series Analysis, reducing stockouts by 20%.

**Business Analyst, Rasha Petroleum Pvt Ltd, January 2021 – Dec 2021** India

- Assisted the Sales and Marketing team in sales and distribution of Diesel, Bio-Diesel, Fuel Oil, and other petroleum derivative products.
- Maintained a cordial relationship with several business owners and key decision-makers.
- Created alternate sources of energy projects such as Waste Heat Recovery systems and conversion of Waste to Methanol.

**Data Analyst Intern, Orkash Service Private Limited, July 2020 – December 2020** India

- Developed a machine learning model to analyze customer sentiment from online reviews, providing actionable insights for product improvement and enhancing customer satisfaction.
- Analyzed large datasets, processing and analyzing over 10,000 records to extract actionable insights for decision-making.
- Assisted in cleaning and preprocessing data, ensuring accuracy and consistency of over 5,000 data points.
- Contributed to the success of data-driven projects by providing comprehensive analysis and reporting, resulting in a 20% increase in efficiency and cost savings of \$10,000.

**Business Development, Vaignunth Enertek Pvt Ltd, Aug 2018 – June 2020** India

- Worked with clients to define the vision and scope of the project and effectively communicated the same to the development & design team.
- Assisted design team in energy efficient fueling system, brown gas generator, Gasifier.
- Creating alternate sources of energy such as Waste Heat Recovery systems and conversion of Waste to Methanol using gasifiers.

## Skills and Certifications

- **Software Packages:** Python, R-Studio, C, C++, JavaScript, AWS, PowerBI, Tableau, MySQL, Office 365
- **Core Skills:** Data Analysis and Visualization, Artificial Intelligence, Machine Learning and Deep Learning, Data Structures and Algorithms, Statistical Analysis, Sales and Marketing and Agile Methodologies
- **Certifications:** Google Data Analytics, Machine Learning by Andrew, Communication, and Interpersonal Skills at work (Leeds University), Introduction to Physical Computing (Lancaster University)

## Education

**CARDIFF UNIVERSITY**

Master of Science, Data Science and Analytics

**ANNA UNIVERSITY**

Bachelor of Engineering, Computer Science Engineering

**Cardiff, UK**

Sept 2022- Present

**Chennai, India**

Aug 2014 - April 2018