Karan Manoharan

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EXPERIENCE

Data Scientist, Tenacium DC, Contract   London, United Kingdom

Project: Using previous years data regarding petrol, diesel and electricity and predicting how much these fuels will be used in later years and determine if the UK will be able to handle a potential influx of electric cars.

- Designing and implementing an automated log collection process using FluentD.
- Extracted, transformed, and loaded large volumes of energy consumption data using Java and then storing in Matano.
- Conducted data quality checks, implemented cleansing strategies, and created visualizations for analysis and built Timer Series model for prediction using Darts Library (IDE used AWS SageMaker).
- 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.

Data Scientist, Everest Stabilizers (January 2022 – August 2022)

- Developed and implemented a predictive maintenance model using machine learning algorithms, resulting in a 15% reduction in downtime and saving $50,000 in maintenance costs annually.
- Analyzed customer data to identify key insights and trends, leading to the creation of targeted marketing campaigns that resulted in a 10% increase in customer acquisition.
- Collaborated with cross-functional teams to build a recommendation system that enhanced customer satisfaction and generated a 12% increase in upsell opportunities.
- Spearheaded the development of a sales forecasting model using Time Series Forecasting, optimizing inventory management, and reducing stockouts by 20%.

Business Analyst, Rasha Petroleum (January 2021 – Dec 2021)

- Spearheaded sales and marketing strategies for various fuels, optimized market presence and revenue generation.
- Nurtured and maintained relationships with industry stakeholders and decision-makers, fostering collaboration and growth opportunities.
- Led initiatives diversifying the company's portfolio with projects like Waste Heat Recovery systems and Waste-to-Methanol conversion, aligning the company with sustainability goals and innovation.
- Identified growth and efficiency opportunities, executing projects that expanded product offerings and reinforced the company's reputation as an industry innovator.

Junior Data Scientist, Orkash Services (July 2020 – December 2020)

- Supported all stages of data projects, from problem definition and data collection to model development and deployment, while collaborating with cross-functional teams.
- Conducted in-depth exploratory data analysis (EDA) and feature engineering, contributing to improved model performance and insights generation over 5,000 data points and 10,000 records.
- 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.
- Developed a machine learning model to analyze customer sentiment from online reviews, providing actionable insights for product improvement and enhancing customer satisfaction.
- Generated comprehensive project documentation and reports, effectively communicating findings and results to stakeholders, and contributing to informed decision-making.

Business Development Specialist, Vaigunth Energy Tech (Aug 2018 – June 2020)

- 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.
- Lead Generation and new customer acquisition for the clients and upselling revenue by 20%.

SKILLS AND CERTIFICATIONS

- **Programming Languages**: Python, R-Studio, C, C++
- **Tools and Visualization Libraries**: Pandas, NumPy, Sci-kit learn, Matplotlib, Seaborn, Pytorch, TensorFlow, Tableau
- **Database and Cloud Computing Platforms**: MySQL, MongoDB, AWS and GCP
- **Core Skills**: Data Analysis and Visualization, ETL, Machine and Deep Learning, Predictive and descriptive Analytics, A/B testing, NLP, Sales and Marketing, and Agile Methodologies.
- **Certifications: Code Academy (Data Scientist Path), Google Data Analytics, Machine Learning by Andrew, Communication and Interpersonal Skills at work (Leeds University), Physical Computing (Lancaster University)**

EDUCATION

CARDIFF UNIVERSITY
Master of Science, Data Science and Analytics
ANNA UNIVERSITY
Bachelor of Engineering, Computer Science Engineering