

DHANESHWARAN PONNURANGAM

Data Scientist

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Data-driven Machine Learning Engineer with a Master's in Data Science and 2+ years of experience in building, deploying, and optimizing machine learning models. Expertise in **Apache Spark, Python, and distributed computing** for data-intensive applications. Strong background in **MLOps, cloud-based model deployment, and large-scale data processing** for predictive analytics and automation.

Education

Swansea University

Master of Science in Data Science

Jan. 2022 – Feb 2023

Swansea, UK

Anna University

Bachelor of Science in Computer Science and Engineering

Aug 2017 – Feb 2021

Chennai, India

Technical Skills

Programming: Python, SQL, Java, PySpark; **ML/AI:** Scikit-learn, TensorFlow, Keras, PyTorch; **Big Data:** Apache Spark, Databricks, Apache Beam, Hadoop; **Cloud:** Azure, Kubernetes, Docker; **MLOps:** Apache Airflow, CI/CD Pipelines; **Visualization:** Power BI, QlikView

Experience

SportScotland

Data Management officer

July 2023 – Mar 2024

Glasgow, Scotland

- Built and deployed machine learning models to analyze athlete performance and predict future outcomes, increasing prediction accuracy by 20%
- Conducted advanced data analysis on large datasets using Python and SQL, generating actionable insights for management.
- Developed and maintained ETL pipelines, improving data processing efficiency by 30%.

Sri Balaji Sat System

Data Analyst

Jan 2021 – Jan 2023

Chennai, India

- Designed and implemented machine learning algorithms to optimize business operations, achieving a 15% reduction in operational costs.
- Created interactive visualizations and dashboards to showcase key metrics, improving accessibility for non-technical stakeholders.
- Conducted in-depth data analysis to evaluate campaign performance, optimize marketing strategies, and improve ROI.

Projects

Asphaltene Data Generation and Analysis | *Python, RDKit, ML, Cheminformatics*

May 2023 – May 2024

- Developed a dataset of asphaltene molecules with their chemical properties, aiding research on petroleum components and their effects.
- Utilized RDKit to generate and modify molecular structures, enabling the creation of oxidized and amino polycyclic aromatic hydrocarbons (PAHs).
- Applied machine learning techniques to predict molecular properties and visualize molecular structures, improving analysis and research efficiency.

Swimming Performance Analytics Dashboard | *Power BI, Data Visualization, AI, Encryption*

Jan 2022 – Present

- Developed an interactive Power BI dashboard for visualizing swimmer's health metrics and milestones, aiding coaches in performance analysis.
- Implemented data encryption techniques to protect athlete's sensitive information using hashing.
- Collaborated with national coaching staff to integrate psychological and physiological data for holistic athlete development.

Customer Call Analysis and Classification | *NLP, Machine Learning, Audio Processing*

May 2021 – Dec 2021

- Developed an NLP algorithm to convert audio recordings from customer calls into text for further processing and classification.
- Applied fuzzy logic and regular expressions for effective data classification and pattern recognition.
- Utilized an SVM classifier to process and categorize customer call data, enhancing sentiment analysis accuracy.