

# LAKSHMINARAYANAN R

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📁 <https://github.com/Lakshminarayanan-R>

## SUMMARY

A full stack data professional with 3+ years of experience in data analytics, data engineering and data science, I thrive at the intersection of data, technology, and business strategy. I am skilled in uncovering meaningful patterns, building predictive models, and delivering data-driven recommendations that help organizations make smarter decisions.

## WORK EXPERIENCE

### Data Analyst, Data Insights Chapter 1 | Vestas, Chennai, India

2023 - Present

- Developed a **regression model with time series adjustment** to predict the demand resource requirements. Starting with **hypothesis testing, feature selection, feature engineering, Model selection, evaluation and deployment**. Built a dash based application for end user interface.
- Working on Tech POC's like Data Quality Application with **Anomaly Detection on snowflake data warehouses** (built a Streamlit application for rule suggestion), **Natural language to SQL using Hugging Face Transformers, Containerisation and deployment of ML models in Azure Model Registry**.
- Supported and Enhanced the data transformation and model training pipeline of a BERT based classifier model**.
- Involved in the **development and implementation of standard Data Products Development Framework, Data Product Adoption Framework and Git Versioning of Data Products**.
- Created 4 End-to-End data products from feasibility analysis, rapid prototyping until deployment of the product following the standard data product development process**. Involved in building data models in snowflake and DBT.
- Process Evaluation and KPI Definition** on Manufacturing & Service Quality & Operations.

### Engineer, T&OS | Vestas, Chennai, India

2022 - 2023

- Analysed Critical Quality Issues of Blade failure with the help of statistical analysis using distribution plots on influential parameters, conducting outlier detection and significance test on the obtained sample results from SCADA system of 250+ blades**.
- Created 7 Business Critical Power BI dashboards for Manufacturing and Quality related KPI's** for Global and Regional Teams, this enhanced the visibility of the process and identify areas for improvements.
- Conduct EDA for a level 4 and level 5 critical quality problems to prevent line stoppage and ensure quality. **Statistical process control of parameters using six sigma framework, performing Design of Experiments (DOE) to identify features having significant impact on quality**

### GET, TSPQ | Vestas, Chennai, India

2021 - 2022

- Supported on Data Analytics part of a traceability project by Querying multiple large data tables which are approximately 5 million rows from SQL DB, cleaning the data, conducting preliminary transformations using SQL Stored Procedures applying business logics using DAX measure and reclaimed 90% compliance.
- Study the manufacturing process and work to optimise the cycle time and providing intelligent suggestions on line balancing to achieve the desired takt time which resulted in 20% increase in efficiency.

## EDUCATION

### M.Tech Data Science and Engineering

2022 - 2024

Birla Institute of Technology and Science, Pilani

- Coursework include Statistics, Classical and Advanced Machine Learning Models, Deep Learning Models, Natural Language Processing, Big Data Analytics and Information Retrieval.
- Thesis on "**Recommendation system on Data Products and Summarizer using BERT based cross encoder**".

### B.E. Mechanical Engineering

2016 - 2020

St.Joseph's College of Engineering, Chennai

- Project on Statistical Analysis on Performance of brake pad friction material.
- Published a journal on IJEP on the topic "Design of kiln for Anaerobic Combustion"

## TECHNICAL EXPERTISE AND SKILLS

- Data Visualisation tools** - Microsoft Power BI (Microsoft PL 300 Certified), Python, Tableau, Paginated Report
- Data Analytics tools** - Power BI, Microsoft Excel
- Programming Languages** - Python, DAX, SQL, HTML, CSS
- AI ML platforms** - Dataiku, Databricks, Snowpark.
- Web Dev Framework** - Flask, Dash, Streamlit
- Model Containerisation and Deployment** - Docker, Azure App Services, Heroku, Streamlit Cloud
- Data Warehousing and Transformation** - SQL Server (on-premises), Snowflake, Databricks, DBT, Azure Blob, ADF
- RPA** - Microsoft Power Automate, Azure Logic Apps
- Other tools** - SAP, Microsoft Power point, Azure DevOps (ADO), Dataiku