



PALANIAPPAN PR

Data Analyst

10 years of experience in interpreting and analyzing data to drive successful business solutions & new product development. Proficient knowledge in Coding, Data Analysis, Statistics & Data visualization to interpret the insights behind the data.

Excellent understanding of business operations in the field of Construction & Mechanical Automation Industries. Love to solve problems and rely on my analytical skills & Innovative solutions with a hawk-eye for quality & optimization.

Contact Info



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Skills

- Python (Pandas, Numpy, scikit-learn, Matplotlib, Tkinter)
- PowerBI
- Excel, Google Sheets
- SQL

Experience

- Assistant Engg Manager
L&T Construction
July 2012 to Till date

Education

- ME (R&AC Engg)
2012 | 8.3 CGPA
CEG Guindy Anna University
- BE (Mech)
2010 | 78%
Shanmuganathan Engg College
Anna University
- XII
2006 | 82%
Vairams Matric HSS, Pudukkottai
- X
2004 | 81%
Vairams Matric HSS, Pudukkottai

Training

- Data Science training at Besant technologies

Project Summary

Automatic design calculations using Python

- Created a design calculation for the EOT crane using python programming.
- Project-specific requirements are fed as input parameters.
- Automatic report generation & Component selection from available databases.
- Reduction in design time is envisaged across the projects.

Design analysis using Python & Its Packages

- Vibration Design analysis for a bridge damping system made using Python for calculating displacement & velocity.
- Preparing & developing solutions for real-time engineering requirements like calculating coefficients, Data visualization, efficiency, and design validation.

Data Visualization Project using PowerBI for Construction Project

- Prepared a dashboard for monitoring project progress & Vendor document flow analysis.
- Single window for complete document tracking, project forecasting, Delay Analysis, Countering stakeholder claims & identifying resource scarcity.
- Enhances better decision-making for upcoming projects like optimum resource planning and identifying strategic approaches.

Created a PowerBI dashboard for analyzing the Solar Power generation

- Data collected & analyzed for power generation for multiple projects with user interactive charts.
- Monitoring efficiency and the Impact of improper maintenance is analyzed with power generation over some time.
- Activity is instrumental for the project team in deploying resources to ensure proper cleaning & Identifying the site breakdown and its causes & time required to resolve for future forecasting.

Other Roles & Responsibilities

- Prepared a database by collecting key parametric data from executed projects for MEP systems & components. Activity is instrumental in estimating costs for new projects.
- Involved in Stakeholder coordination, and techno-commercial meetings for finalizing vendors.
- Involved in implementing Electronic Document Management System.
- Developed new product & portfolio based on data-driven decisions.
- Prepared PowerBI Dashboard for monitoring Project & Team productivity for a better understanding of resource planning.