Muddada Murali Manohar

Analytics Solutions Advisor at Cyient Insights
Business Analytics from Great Lakes Institute (PGPM-Executive M.B.A)

• Hyderabad,India | +91-9642203701 | mmmuraliii@gmail.com
in linkedin.com/in/murali-manohar-027725a0/   🌐 eportfolio.greatlearning.in/muddada-murali-manohar

Summary

Analytics Solutions Advisor with over 7+ years experience in Engineering and Manufacturing IT solutions

Experienced in developing business insights and Analytic Solutions using advanced machine-learning techniques.

Experienced in Rail Transportation Design, Project Management, requirement analysis, gap analysis, planning, deployment, process improvement and people management.

Data Science Capabilities:

- Proficient in Machine learning, Data exploration & munging, Data Visualization, Industrial Analytics, Digital Twin.
- Strong knowledge in machine learning (both supervised and Unsupervised) both domain and statistical centric.
- Supervised models: Linear Regression, Logistic Regression, classification Descriptive, Survival Analysis, Random Forest, Neural Networks, SVM etc.,
- Unsupervised: Association Mining, Sequence Mining, types of clustering (K-Mean, Fuzzy clustering)
- Feature extraction, Dimensionality reduction using Principal Component Analysis.

Analytics Project Experience

- **Supply Chain Management: Forecasting & Safety Stock**
  Forecasted the expected order quantity for parts with different price, lead times and demand variability.Assess the impact on safety stock and evaluate stock out conditions
- **Health Monitoring and Failure prediction**
  Developing a Prognostic Health Management System for rail transportation based on FMECA. Model to forecasting the life of equipment, clustering the faults based on the stage of fault.Early detection of defects –Industrial Analytics
- **Developing a Digital twin:**
  Identify key variable(s) impacting a turbine
  Predicting turbine events 100 cycles before its actual occurrence.
  Artificial Neural Network (ANN) Model for Predicting Speed of a Turbine with respect other parameters.
- **Anomaly Detection & Power Quality Analysis**
  Developed unsupervised Machine Learning algorithm such as association Rules to identify the relations between the fault types.
  Identify anomalies at where correlation values drastically fall down.Reduced downtime and maintenance cost savings.Reliability indicators to identify the system performance with reference to a location.
- **Smart Meters and Predictive analytics**
  Developed a tool using tableau to segment Customers and monitor usage levels using meter data. To monitor, forecast and predict unusual energy consumption patterns.
- **Predicting Combustor Distress Event**
  Develop a data science methodology to formulate a classification model for event occurrence prediction. PCA based model for dimensionality reduction for the best event prediction classification engine was developed

Core Competencies

- **Professional Skills:**
  Advanced Analytics
  Artificial Intelligence
  Machine Learning
  Internet of Things
  Deep Learning
  Enterprise Productivity Solutions
  Project Management
  Customer Relationship Management
  Pre-Sales
  Strategic Planning
  Design |
  Requirements Analysis
  Strategic Planning
  Operational Excellence
- **Personal Skills:**
  Vision
  Drive
  Creativity
  Analytical Thinking
  Leadership
  Problem Solving
  Interpersonal Communication
  Functional Knowledge
  Agility
  Presentation Skills
  Written Communication
  Relationship Building
  Teamwork
  Innovative
  Detail-Oriented

IT Tool Awareness

Tools

Category	Tools
Analytics Languages	R, Python
Analytics Tools	R Studio,Jupiter
Visual Analytics Tools	Tableau, Power BI
Manufacturing Tools	Autocad, Catia V6,ENOVIA, PDM
	Enterprise resource planning(ERP
Other Tools	Microsoft Office Suite

Professional Experience

Analytics Solutions Advisor
Aug 2018 - Present
Cyient Insights

Develop analytics solutions around M2M, IoT, and Sensor data to solve niche business problems. Drive end to end Big Data Analytics Implementation- Cloud (MS Azure) and building Analytics, IoT use-cases on Industrial, Utilities, Natural Resources, Rail Transportation & Aerospace & Defense.

Senior Design Engineer
Aug 2017 - July 2018
Cyient

In depth hands on experience in conceptual design, analyzing the design and design feasibility from all aspects for Electrical Underframe and Roof installation area of rail Locomotives.

Interaction with customer for design reviews and incorporates customer requirements,regulations and product specifications in to the design.

Rail Design Projects

British Rail Class 701 (Southwest) Bombardier

British Rail Class 710 (London Overground) Bombardier

Senior Design Engineer at Cyient Contract
Apr 2016 - July 2017
Kevin Global Gradient Technologies Pvt. Ltd

Concept design, analyzing the design and design feasibility for Roof, Cab and Underframe of Rail Locomotives.
Interaction with customer for design reviews and incorporates customer requirements, regulations and product specifications in to the design.
Resolving Technical Issues of manufacturability or Assembly in Production

Rail Design Projects

British Rail Class 701 (Southwest) Bombardier

Assistant Manager Operations
JUNE-2012 - JANUARY-2016
Ess Dee Aluminium Limited

Project Management: Monitoring overall project operations, analysing production data like recovery, down time, metal reconcile, raw material Consumption overall equipment efficiency (OEE) thus improving quality & reducing process time.

Production Operations: Production optimization, yield improvement and developing guide lines for sequencing of manufacturing activities. Planning procurement using ERP system.

Declaration

I hereby declare that the above stated information is true to best of my Knowledge

Education

POST GRADUATE PROGRAM IN MANAGEMENT - EX (Aug 17- July 18) **(M.B.A in Business Analytics)**

Great Lakes Institute of Management & Stuart School of Business,   Institute of Technology (IIT) Chicago

B.Tech. in Mechanical Engineering

MCKV Institute of Engineering (2012)

CGPA-7.358

I.S.C Class-XII(2008)-69.2%

I.C.S.E Class X (2006)-74.16%

Certifications

Machine Learning by Stanford University-Coursera

Python for Data Science-edx

Deep Learning Specialization-Coursera

ACTIVITIES

- **Run for A Girl Child**–Hyderbad 10Km Run.
- **Hyderabad Marathon**-10Km Run
- Organized & Participated **Football Tournament** in Cyient.
- Cycle commuting
- **Cyient**– Volunteered to help make improvements to local schools.
- Team manager for SIX SIGMA projects (capacity enhancement and Improve foil recovery).

Language Known

English,Hindi,Telugu & Bengali