



Lijo Chacko



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Profile

Data Science Master's student with extensive engineering and product design experience, seeking an entry-level Data Scientist, Internship, or Working Student role. Leveraging a 16-year background in complex system modeling, project management, and process optimization to solve data-driven business problems. Proficient in Python, Machine Learning, and Predictive Analytics, with a unique ability to bridge the gap between technical data insights and practical industrial applications. Eager to apply analytical skills and contribute to innovative solutions in a dynamic data science environment.

Skills

Data Science & Analytics:

- * Python
 - * Pandas
 - * NumPy
 - * Scikit-learn
 - * Matplotlib
 - * Seaborn
- * Machine Learning
 - * Regression
 - * Classification
 - * Clustering
- * Data Visualization
- * Statistical Analysis
- * Predictive Modeling

Tools & Development:

- * Jupyter Notebooks
- * Google Colab
- * Git/GitHub
- * Agile/Scrum
- * Lean Six Sigma

Domain Expertise:

- * Product Design
- * CAD (AutoCAD, SketchUp)
- * Project Management
- * Quality Assurance
- * Manufacturing Processes

Soft Skills:

- * Problem Solving
- * Cross-functional Collaboration
- * Stakeholder Communication
- * Adaptability

Work Experience:

Sr. CAD Technologist

JUN 2024 - APR 2025

M/s. CHINA STATE CONSTRUCTION ENGINEERING CORP.

DUBAI

- Conducted a comprehensive analysis of existing drafting workflows across multiple project teams to identify bottlenecks and inefficiencies in drawing schedules.
- Developed and implemented standardized drafting procedures and templates, resulting in a quantifiable reduction in revision cycles and a measurable improvement in overall team efficiency for large-scale construction projects.
- utilized data from project management tools to track key performance indicators (KPIs) related to drafting speed and accuracy, providing actionable insights for continuous improvement.
- Skills Demonstrated: Process Improvement, Data-Driven Decision Making, Workflow Analysis, KPI Tracking.

Designer / Project Manager

JULY 2023 - JUN 2024

M/s. NEW EXCLUSIVE DECORATIONS DESIGN & FIT-OUT.

DUBAI

- Developed detailed and accurate Bill of Materials (BOMs) and cost estimates by meticulously analyzing material data specifications and vendor pricing.
- Managed project timelines and resource allocation using Agile methodologies, leveraging historical project data to forecast delivery dates with greater precision and optimize the deployment of personnel and materials.
- Created data-driven reports to monitor project budgets and identify potential cost overruns early in the project lifecycle.
- Skills Demonstrated: Cost Analysis, Agile Project Management, Resource Optimization, Budget Forecasting.

Education

Master of Science (MS)
– Data science, AI & Digital Business

GISMA University,
Potsdam, Germany
Expected completion date Mar. 2026

- Focus :
- Data Science
 - Artificial Intelligence
 - Digital Transformation
 - Project Management
 - Innovation Management
 - Ethical Leadership

- Relevant Coursework :
- Python
 - Machine Learning
 - Data Analytics
 - Digital Strategy
 - AI in Business Applications
 - Research methods
 - Methods of prediction

Bachelor of Science (BSc)
– Visual Communication

Annamalai University,
TM, India

- Focus :
- Design Theory
 - Digital Skills
 - Media Studies.
 - Typography

Language

English

CEFR C1, CLB 7.5 (2024)

German

Appeared for A1

Preparing for A2/B1

Hindi

Proficient level – C1

Product DesignerMAY 2021 - JUN 2023

M/s. EXCLUSIVE ACRYLIC MIDDLE EAST INDUSTRIES.

DUBAI

- Utilized advanced Finite Element Analysis (FEA) simulations to validate design concepts and optimize structural integrity under various load conditions.
- Analyzed stress test data to identify potential failure points and recommend design improvements that enhanced safety while reducing material costs.
- Collaborated with engineering teams to interpret simulation results and translate them into practical design modifications.
- Skills Demonstrated: Simulation & Modeling, Technical Data Analysis, Quality Assurance, Engineering Collaboration.

Sr. Architectural TechnologistJUN 2007 - DEC 2020

M/s. ARABTEC CONSTRUCTION.

DUBAI

- Coordinated the seamless integration of structural, electrical, and mechanical data systems for large-scale construction projects, ensuring data consistency and accuracy across all disciplines.
- Managed extensive submittal logs and RFI databases, implementing a system for tracking project milestones and resolving technical discrepancies efficiently.
- Analyzed project data to identify potential clashes between different building systems and propose data-driven solutions to mitigate risks.
- Skills Demonstrated: Systems Integration, Data Management, Technical Documentation, Risk Mitigation.

Interior DesignerJAN 2002 - DEC 2006

M/s. SAM & ASSOCIATES.

BHOPAL, INDIA

- Preparation of computerized drawings of the designs.
- Co-coordinating with Subcontractors for daily work activities.
- Supervision and execution of finishing works as per drawings, material standards and quality.
- Observed and practiced quality assurance and safety within Project site.
- Organizing and managing accounts.

Interests

Travel

DIY / Craft

Music

Home Decor

Drawing

Photography