

# BALAJI RAJ VELUCHAMY, PMP

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## PROFESSIONAL SUMMARY

Results-driven **Project & Analytics Professional** with 5+ years of experience leading **cross-functional initiatives**, delivering data-driven insights, and optimizing operational performance in industrial and technology environments. Proven ability to manage **end-to-end project lifecycles** while leveraging **business intelligence tools (Power BI, Excel, SQL, Python)** to translate complex datasets into strategic recommendations. Experienced in **KPI governance, forecasting, risk mitigation**, stakeholder reporting, **process optimization**, and continuous improvement using **Lean Six Sigma** and **PMP-aligned methodologies**. Adept at **bridging business and technical teams** to drive **measurable impact** in cost, efficiency, quality, and performance.

## CORE COMPETENCIES

- **Project & Program Management** - End-to-End Project Lifecycle, Scope Definition, Scheduling & Milestone Tracking, **Risk Management**, **Budget Tracking**, **Stakeholder Alignment**, Steering Committee Reporting, **Change Management**, **Agile & Waterfall**, Cross-functional Leadership.
- **Business Intelligence & Data Analytics** - **Power BI (DAX)**, **Advanced Excel** (Pivot, Power Query, Modeling), **SQL**, **Python** (Pandas, NumPy, Matplotlib), **ETL**, **Dashboard Development**, **KPI Frameworks**, **Data Visualization**, Business Reporting, Executive Presentations.
- **Business & Operational Analytics** - **Forecasting**, Variance Analysis, **Cost Optimization**, **ROI Analysis**, Process Mapping, **Root Cause Analysis**, A/B Testing, Regression, Clustering, **Performance Metrics**.
- **Continuous Improvement** - **Lean Six Sigma (DMAIC)**, 5 Whys, Kaizen, Gemba, 5S, Waste Elimination, Cycle Time Reduction, **SOP Development**, Audit & Compliance Governance.

## WORK EXPERIENCE

**AI Data Analyst** – Data quality optimization & Model performance Sept 2024  
Sunnyvale, California

- Analyzed **large-scale** human-labeled and multimodal **datasets** using RLHF and supervised fine-tuning techniques, improving model performance and achieving **91% data quality** across evaluation metrics.
- Contributed to 12 AI initiatives by ensuring data compliance, structured validation, guideline adherence, experiment tracking, and quality metrics.
- Facilitated **cross-functional collaboration** between research and data stakeholders to drive performance improvements and **milestone delivery**.
- Applied prompt engineering and generative AI tools (Gemini, Grok, OpenAI) to support **model optimization** workflows.

**Assistant Project Manager** – Operations, Analytics & Program Governance Jan 2021 – Jul 2023  
Tamil Nadu, India

**Saint-Gobain India Private Limited - Glass Business**

- Coordinated **90+ cross-functional projects** across operations, supply chain, safety, and efficiency initiatives, ensuring **on-time delivery** and alignment with strategic business objectives.
- Defined **KPIs**, monitored milestone progress, and tracked risks to maintain **project governance** and accountability.
- Led high-impact safety and industrial efficiency initiatives, **reducing** packing machine **lead time** by **33%** and eliminating operational safety risks.
- Built scalable **BI dashboards** using Excel and **Power BI** to track cost, productivity, quality, energy, and performance metrics.
- Applied **Lean Six Sigma** methodologies to optimize warehouse operations, **reducing** unwanted movement by **40%** and generating **~8 lakhs in savings**.
- Prepared **executive presentations**, facilitated review meetings, organized **steering committees**, and communicated progress updates to senior leadership.
- Managed **SOP documentation**, audit preparation, change control processes, and workflow standardization.
- Delivered **3.5% budget savings** structured financial monitoring, **cost modeling**, and process optimization initiatives.
- Earned S+ (95%) performance rating for achieving project goals, continuous learning, and exceeding **operational KPIs**.
- Strengthened **CI culture** by training employees on 5S, TPM, and structured **problem-solving** methodologies (achieved **94% employee engagement**).

**Technical Research Assistant** – Business Analytics & Reporting Jul 2019 – Dec 2020  
Tamil Nadu, India

**Saint-Gobain India Private Limited - Glass Business**

- Developed **KPI dashboards** using Excel and Power BI, achieving **98% data accuracy** to support **operational decision-making** for leadership.
- Conducted **feasibility studies** using value stream mapping, Kanban, and workflow analysis to identify inefficiencies and recommend improvements.
- Prepared structured PowerPoint reports for **quarterly leadership reviews**, **annual budget reports**, and policy deployment assessments.

## PROJECT EXPERIENCE

**Excess inventory optimization** – Forecasting & Cost analytics Jan 2024 – May 2024  
Tempe, Arizona

- Defined **project scope**, **KPIs**, and milestones using **Agile methodology** building **demand optimization model** using **Python** and **Power BI DAX** to analyze procurement trends. Recommended approval-level restructuring, contributing to **75% improvement** in excess **inventory risk visibility**.

**Parking occupancy detection** – Computer vision & Business case analytics Mar 2024 – May 2024  
Tempe, Arizona

- Led **end-to-end project planning**, **model development**, and validation using Python, PyTorch, YOLO/RCNN. Automated model learning the classification of 200+ images with **>90% accuracy**. Conducted spatial analysis and **ROI evaluation** to assess **operational feasibility**.

**Consumable optimization & Layout redesign** – Continuous improvement initiative Apr 2022 - Jul 2022  
Tamil Nadu, India

- Coordinated **cross-functional Lean initiative** applying 5S, value stream mapping, and **root cause analysis**. Reduced forklift inefficient movements by **40%** and annual consumable costs by **50%**. Improved material flow efficiency and operational productivity through structured **PDCA execution**.

## EDUCATION

Master of Science, **Business Analytics** – Summa Cum Laude Arizona State University  
Aug 2023 – May 2024

Bachelor of Engineering, **Automobile Engineering** – Cum Laude Anna University  
Jun 2015 - May 2019

## CERTIFICATION

[Project Management Professional \(PMP\) – 4278242](#) Jan 2026

[Microsoft Certified: Power BI Data Analyst Associate - E5257C-3B754E](#) Dec 2025

Lean Six Sigma Yellow Belt: Workplace Layout Analysis – **P20220677751** Jul 2022