

# LAKSHMAN PRABHU K

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## PROFILE

Technical Leader | AI/ML & GenAI Engineering | Startup Builder

Technical builder and AI-driven product leader with a proven record of taking ideas from zero to production — an enterprise data migration that lifted accuracy from 65% to 95%, and a 40% operational cost cut by replacing paid SaaS/AI tools with in-house models. Independently designed and shipped five end-to-end products, including Thozhil, a mobile-first POS platform evolving into a GST-compliant billing and inventory SaaS for Indian retail and restaurants. Comfortable owning ambiguous 0-to-1 problems end-to-end.

## SKILLS

**AI / ML / GenAI:** AI Product Development, LLM Applications, Model Fine-tuning, LangChain, Pinecone (Vector DB), NLP, Prompt Engineering, SLM Fine-tuning, GenAI Workflow Automation, Model Evaluation

**Data Engineering / BI / Analytics:** Microsoft Fabric, OneLake, Lakehouse, Fabric Gateway API, PySpark, SparkSQL, SQL, MariaDB, PostgreSQL, MySQL, ETL/ELT, Dataflows Gen2, Data Warehousing, Data Modeling, Power Query, ACID Integration, Row-Level Security (RLS)

**Visualization & Reporting:** Power BI, Tableau, Excel, Dashboard Development, KPI Reporting, Interactive Dashboards

**Programming & Automation:** Python, SQL, Pandas, NumPy, Flask, REST API Integration, Power Automate, Shell Scripting/Bash, CRON-based Pipeline Automation

**Frontend / Mobile / UI-UX:** React.js, Next.js, JavaScript, HTML5, Tailwind CSS, UI/UX Design, Android Studio (Gradle), React Native

**Cloud / DevOps / Infrastructure:** Azure, AWS, Docker, Git, GitHub, CI/CD, Monitoring, Incident Response, Root Cause Analysis, SLA Support

**Leadership & Business:** Technical Leadership, 0-to-1 Product Building, Client & Stakeholder Management, Cost Optimization, Build-vs-Buy Decision-Making

## WORK EXPERIENCE

### Power BI Analyst — Data Engineering — Knit-Works

May 2026 – Present

- Architected and led end-to-end AI integration into business operations — a fine-tuned AI dashboard generator, farm-management prediction models, SLM-based trend forecasting, and a natural-language AI assistant embedded in the client dashboard.
- Led a full enterprise data migration (MariaDB → Lakehouse via Microsoft Fabric Gateway API), owning format conversion, table restructuring, unit standardization, ACID compliance, and Row-Level Security — raising data accuracy from 65% to 95%.
- Designed and automated an end-to-end ETL pipeline (SharePoint → Power Automate → CRON Python jobs → live dashboard refresh), removing manual data handling, and built/owned the production React dashboard, partnering directly with million-euro-revenue client stakeholders.
- Drove a 40% reduction in operational costs by replacing third-party SaaS/AI vendors with in-house AI models, SLMs, and custom automation tools.

### Junior Data Engineer — Document IT LLC

Aug 2025 – Apr 2026

- Designed and maintained production ETL/data pipelines in Python and SQL, engineering complex stored procedures, joins, and CTEs for enterprise reporting at scale.
- Owned data validation and production support end-to-end, resolving data-quality issues and strengthening pipeline execution efficiency.

### SQL Server Developer (Intern) — Document IT LLC

Feb 2025 – Jul 2025

- Built and tuned SQL queries, stored procedures, and CTEs for reporting and monitoring; led incident troubleshooting and root cause analysis to improve system reliability.

### ML Engineer (Intern) — IIT Guwahati – Atharvo

May 2024 – Jul 2024

- Developed ML/NLP models for predictive analytics and anomaly detection on large-scale datasets, focused on model optimization and scalable deployment workflows.

## PROJECTS

- Thozhil (Thozil) POS** — Mobile-first, data-secured POS software for end-to-end point-of-sale operations, now evolving into a GST-compliant billing and inventory SaaS for Indian retail and restaurant shops. *Stack: Android (Gradle), React Native, Backend/DB*
- BrewIQ** — End-to-end café management platform built solo: POS module, EOD sales tracking, BOM, inventory, sales AI analytics with margin detection, automated notifications, GST/compliance assistant, payroll integration, and an AI bot for owner-level insights. *Stack: React, Python, AI/LLM, SQL*
- UniQR** — All-in-one QR commerce platform (payments, reviews, Instagram, WhatsApp, websites) with natural-language business insights; designed to integrate with Tapigo's loyalty solution. *Stack: React, Python, AI/NLP Insights*
- TokenFlow** — Web-integrated token/ticket dispenser platform for limited-offer distribution, with backend support and a full business analytics dashboard. *Stack: React, Node/Python, SQL*
- Multi-Scale ViT-CNN Fusion for Thoracic Disease Detection** — Hybrid CNN-Transformer medical AI model achieving 91% accuracy. *Stack: Python, CNN, Vision Transformer*

## CERTIFICATIONS

ITIL 4: Foundations and Framework • Introduction to DevOps – IBM • Incident Response and Digital Forensics – IBM • IBM AI Product Manager Professional Certificate • Microsoft Azure AI Fundamentals (AI-900) • Google AI Professional Certificate • Microsoft Power BI • Deloitte Data Analytics • Walmart Advanced Software Engineering

## EDUCATION

M.Sc. Data Science — SASTRA University (2023–2025), CGPA 8.21 • B.Sc. Bioinformatics — Bishop Heber College (2020–2023), CGPA 7.8