

SANMATI RAJIV SAWALWADE

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SUMMARY

Engineering program manager and ML/software engineer with 3+ years driving cross-functional teams and external suppliers from concept to launch. Mechanical Engineering foundation; proven owning project plans, schedules, risk and dependency tracking, and go/no-go release readiness across hardware-adjacent and AI/ML programs. Strong communicator who translates complex technical issues into clear status and decisions for leadership.

EDUCATION

Northeastern University – M.S. Information Systems *Expected May 2027*
GPA: 4.0 / 4.0 | Coursework: Data Science Engineering, Algorithms & Data Structures, Business Analysis, Application Engineering, Machine Learning

Dr. D. Y. Patil College of Engineering – Bachelor of Mechanical Engineering *Mar 2022*

PROFESSIONAL EXPERIENCE

Audifytech – Software Engineer *Sep 2022 – Dec 2023*

- Defined SLAs and the **go/no-go release standards** adopted as the team baseline; built production monitoring (structured logging, drift tracking, SHAP, latency profiling) at **sub-100ms p95** to enforce release readiness
- Shipped a production ML classification model (**0.82 AUC-ROC**) serving **1M+ users** ; ran a Bayesian A/B framework across **15+ experiments** , lifting D7 retention **7%** and protecting **\$140K+ ARR**
- Engineered an Airflow batch pipeline clustering **100K+ users** (K-Means + DBSCAN) and a retrieval layer powering a recommender with **23% precision lift**

WILO Mather and Platt Pumps Pvt. Ltd. – Industrial Engineering Intern *Oct 2021 – May 2022*

- Led a 7-month cross-functional LEAN/VSM program end-to-end** within a 6-member team, owning the **project plan, milestones, and weekly status** to the plant head and engineering team; built current- and future-state value stream maps for end-suction and split-case pumps
- Drove root-cause analysis against TAKT time and **aligned shop-floor, engineering, and management stakeholders** on LEAN counter-measures, cutting cycle time **5.25 min** (helix pump) and **4.26 min** (multi-pump booster)
- Delivered **~\$2.8K (₹2.3L+)** annualized cost reduction across two product lines via the PQCDSM framework; presented results to plant leadership and published findings in Kalahari Journal (Scopus-indexed, UGC Care List 2)

Gameskraft (\$2.3B Unicorn) – Software Engineer Intern *Sep 2021 – Dec 2021*

- Owned validation across **15+ production releases** (hypothesis testing, survival analysis), coordinating product, data, and engineering stakeholders to a **zero-regression go/no-go bar**
- Built ensemble models on a **10M+ event dataset** surfacing customer-lifetime-value drivers, reducing first-week churn **12%** across 3 products serving **10M+ users**

PROJECTS

FirstApply | Real-Time Job-Market Intelligence Platform ([Link](#)) *Sep 2025 – Present*

- Owned end-to-end as PM:** authored the PRD and success metrics, made **build-vs-cut calls** (cut auto-apply, prioritized alert latency over board breadth), and ran the roadmap, dependency plan, and **go/no-go from concept to live deployment**
- Architected and shipped a full-stack platform (Python, Node.js, FastAPI, PostgreSQL, Docker): real-time ingestion crawling **6+ job boards** via Playwright + BeautifulSoup, aggregating **2,600+ roles** with automated deduplication and structured storage
- Built an NLP scoring engine on the Claude API that scores each role **0-100** against up to 5 candidate profiles, with a near-zero-latency alerting pipeline so users apply early

NLP Document Retrieval & LLM Inference System *Jun – Oct 2024*

- Designed a multi-stage RAG pipeline (Transformer embeddings, semantic chunking, Pinecone vector search) for **sub-200ms retrieval** over **50K+ documents** , reaching **89% answer relevance** ; deployed via FastAPI + Docker with LangChain multi-agent orchestration

COVID-19 CT Scan Classification | Deep Learning ([Link](#)) *Feb – May 2024*

- Built a deep-learning classifier triaging chest CT scans (COVID-19 / Pneumonia / Normal); fine-tuned EfficientNetB0 via two-stage transfer learning in TensorFlow/Keras, reaching **93.4% test accuracy** (0.91-0.97 per-class F1), validated with 5-fold stratified cross-validation

TECHNICAL SKILLS

Program & Project Management: Roadmapping, Scheduling & Milestones, Risk & Dependency Tracking, Cross-Functional Leadership, Go/No-Go & Release Readiness, Stakeholder Alignment, Supplier Coordination, LEAN / VSM, PQCDSM

Machine Learning & AI: Python (Advanced), PyTorch, TensorFlow, Scikit-learn, XGBoost, Hugging Face / Transformers, LLMs (GPT, Claude API), RAG, CNNs, Transfer Learning, SHAP

Software Engineering: Java, C/C++, JavaScript/TypeScript, Data Structures & Algorithms, OOP, REST APIs, FastAPI, Node.js, Docker, Git, CI/CD

Data & Distributed Systems: SQL, PostgreSQL, BigQuery, MongoDB, Vector DBs (Pinecone), Apache Spark / PySpark, Airflow, ETL Pipelines, Data Warehousing

Math & Methods: Linear Algebra, Statistics, A/B Testing, Hypothesis Testing, Bayesian Methods, Experimentation