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AI/ML Engineer | Gen AI Engineer

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PROFESSIONAL SUMMARY

AI/ML engineer who turns LLMs and machine learning models into working applications, taking projects from raw data to a deployed product. Built DocuMind, a RAG document assistant that answers questions from uploaded files using LangChain and ChromaDB, and LocalPulse AI, a review classification system trained on 6.99M Yelp reviews with PySpark MLlib that reached 86.2% accuracy on a 1.4M-review holdout set. Won 1st place in the Productivity Booster Track of the ML Empowerment Build Challenge.

TECHNICAL SKILLS

Programming languages: Python, C, SQL, R
Gen AI and LLMs: LLM APIs, RAG, Prompt Engineering, LangChain, ChromaDB, Vector Databases
AI and Data: PyTorch, TensorFlow, Scikit-learn, NLTK, OpenCV, Pandas, NumPy, PySpark
Tools: Git, GitHub, Docker, Streamlit, MS Excel, Notion, Claude, Cursor, Lovable
Core concepts: Artificial Intelligence, Machine Learning, Natural Language Processing, Generative AI, Agentic AI, Large Language Models, Computer Vision, Data Structures and Algorithms, R Programming.

EDUCATION

Sathyabama Institute of Science and Technology, Chennai, India
B.E. Computer Science Engineering (AI Specialization) | First Class with Distinction | CGPA: 8.2 | July 2026
Relevant Coursework: Machine Learning, Artificial Intelligence, Generative AI, Large Language Models, Big Data Analytics, Natural Language Processing, Data Structures and Algorithms, Object-Oriented Programming, Probability and Statistics, Linear Algebra, SQL, R Programming, Operating Systems.

PROJECTS

LocalPulse AI — Local Business Review Classification System | Python | Scikit-learn | PySpark | NLP
GitHub: <https://github.com/Cashlin3/LocalPulse-AI-Automated-Local-Business-Review-Classification-System>
Live: <https://localpulse-ai-automated-local-business-review-classification-s.streamlit.app/>

- Owned the ML and product layers of a 2-person Big Data NLP project on 6.99M Yelp reviews: trained and tuned a PySpark MLlib Logistic Regression classifier on TF-IDF features, reaching 86.2% accuracy on a 1.4M-review held-out test set.
- Designed a dual-layer alert system that requires both negative ML sentiment and a high-risk keyword match (e.g., hygiene and safety terms) before raising a critical alert, flagging 11,134 critical reviews. Built the Streamlit and Plotly dashboard with overview, business search, and critical-alert pages.

DocuMind — RAG Powered Knowledge Assistant | Python | LangChain | ChromaDB | Streamlit
GitHub: <https://github.com/Cashlin3/DocuMind--RAG-Powered-Knowledge-Assistant>

- Built an end-to-end RAG assistant that answers questions from uploaded PDF/TXT files using only retrieved content: PyPDF2 extraction, token-based recursive chunking (500 tokens, 50 overlap), and ChromaDB cosine-similarity retrieval of the top 4 chunks.
- Reduced hallucination with a context-restricted prompt, an explicit “I don’t have that information” fallback, and low-temperature (0.2) generation. Used deterministic chunk IDs to prevent duplicate vectors on re-upload.

WORK EXPERIENCE

Quantelle Private Limited | Technical Research Officer | Chennai, India | July 2024 – January 2025

- Researched quantum computing, post-quantum cryptography, and quantum algorithms, and authored 5+ technical reports on the global quantum industry landscape to support strategic positioning.
- Organized research data across 3+ tracks in Notion and Excel into a structured, shared format, improving cross-team accessibility for the research division.
- Mentored a 5-member research team on research and reporting practices.

ACHIEVEMENTS & LEADERSHIP

- 1st Place, Productivity Booster Track** — ML Empowerment Build Challenge, for LocalPulse AI (**86.2% accuracy**)
- Class Ambassador** — Represented and coordinated with students, building strong communication and leadership skills

LANGUAGES

Tamil (Native) | English (Fluent) | Spanish (Beginner)