LVISHAL1607

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SUMMARY

Highly motivated and detail-oriented software development engineer with expertise in machine learning and data engineering. Proven track record of designing and building scalable data pipelines and infrastructure for multimodal LLM training. Skilled in programming languages such as Python, SQL, and R, with experience in working with large-scale computing resources.

EDUCATION

Master of Science in Data Science, Analytics and Engineering Expected May 2026
Arizona State University

Relevant coursework: **Bachelor of Technology in Computer Science (AI/ML)** May 2024
Vellore Institute of Technology

Relevant coursework:

TECHNICAL SKILLS

Technical Skills: Python, SQL, R, PyTorch, TensorFlow, Scikit-learn, HuggingFace, NLP, Time Series Analysis, Causal Inference, A/B Testing, Statistical Modeling, GCP, Docker, MongoDB, PostgreSQL, Cloudflare AI, REST APIs, Git, CI/CD, Tableau, Power BI, Streamlit
Machine Learning: PyTorch, TensorFlow, Scikit-learn, HuggingFace, NLP, Time Series Analysis, Causal Inference, A/B Testing, Statistical Modeling

PROFESSIONAL EXPERIENCE

DevLabs, : Technical Officer Oct 2025 - Present

- Scaled parsing capabilities for 676 users by architecting a serverless pipeline using Cloudflare AI and MongoDB.
- Enabled semantic search for 100-resume batches by processing text data into 384-dimensional vector embeddings.
- Achieved 100\

Amrutanjan Health Care Ltd., : Data Analyst Intern May 2023 - Jul 2023

- Improved demand forecasting accuracy across 30+ outlets by engineering an automated allocation pipeline.
- Reduced manual planning time for FY23–24 by automating historical sales data analysis and reporting.
- Identified underperforming regions for FY22–23 strategy by analyzing spatial trends using GeoPandas.
- Optimized regional sales performance across nation-wide markets by implementing statistical mapping to visualized data trends.

VIT Chennai \ Global Health Research and Innovations Canada, : Research Intern Dec 2022 - Aug 2023

- Evaluated latency impacts across 200+ studies by conducting a systematic IoMT review of decentralized systems.
- Proposed cost-efficient diagnostic workflows for healthcare systems by modeling decentralized health-data processing and edge shadows.

PROJECTS

TailRisk: Risk-Aware ML Framework Dec 2022 - Aug 2023

Developed and published the TailRisk package on PyPI, establishing a framework for predicting extreme insurance losses.

- Engineered a Hybrid Meta-Learner architecture with Quantile and LaR optimization to overcome traditional MSE model failure.
- Achieved a 10.25\
- Ensured production readiness through full Scikit-learn API compatibility and automated GitHub Actions testing.

Careerpulse: AI Resume - Job Matching Jan 2023 - Aug 2023

Engineered a semantic matching system using LLM normalization and SBERT embeddings with a 4-factor scoring algorithm.

- Accelerated recruiter decision-making by enabling candidate ranking and CSV export through a dedicated recruiter portal.
- Provided candidates with instant profiling by engineering automated transparency reports and LaTeX resume optimization.

SlideSage-v3: Adaptive Learning Assistant Jun 2023 - Aug 2023

Facilitated personalized concept mastery for 10+ active users by engineering a low-latency adaptive learning platform.

- Enabled real-time generation of tailored educational videos and interactive quizzes using Next.js and Groq LLM.
- Optimized interface responsiveness and media rendering speeds by integrating Pexels API and Tailwind CSS.