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Lvishal1607

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SUMMARY

Highly motivated and detail-driven Software Development Engineer with a strong background in machine learning and data engineering. Proven experience in designing and deploying scalable data pipelines and infrastructure for multimodal Large Language Models (LLMs). Skilled in Python, R, and SQL, with expertise in NLP, recommendations systems, and time series analysis. Proficient in cloud computing, containerization, and CI/CD pipelines.

SKILLS

- Data Science & Machine Learning: Python, R, scikit-learn, TensorFlow, PyTorch, NLP, Recommendation Systems, LLM Integration, Time Series Analysis, Causal Inference, A/B Testing - Data Engineering & Infrastructure: SQL, PySpark, Databricks, Apache Airflow, MLflow, Docker, REST APIs, MySQL, PostgreSQL, SQLite, Supabase - Data Analytics & Visualization: Tableau, Power BI, Streamlit, Matplotlib, Seaborn, Excel, Statistical Modeling, Linear Optimization (CPLEX), D3.js - Additional Proficiencies: Git, API Integration, n8n Workflows, Julia, CI/CD pipelines

EXPERIENCE

- Data Analyst Intern, Amrutanjan Health Care Ltd., Chennai, India (May 2023 - Jul 2023)
- Designed and deployed a Python-based demand forecasting pipeline, reducing manual planning effort and improving next-year distribution accuracy across 30+ outlets.
- Leveraged GeoPandas to visualize and analyze nation-wide sale trends (FY 2022-23), uncovering underperforming regions that informed strategic market reallocation.
- Delivered data-backed insights to senior analytics stakeholders, guiding inventory optimization and strengthening operational efficiency across regional units.

- Data Scientist, *(Expected)* (Aug 2024 - May 2026)
- Designed and deployed scalable data pipelines and infrastructure for multimodal Large Language Models (LLMs).
- Collaborated with ML scientists to advance state-of-the-art multimodal capabilities.
- Developed and maintained high-quality data foundation systems that enable efficient model development.

PROJECTS

- SlideSage AI (Aug 2025 - Oct 2025)
- Built an AI-powered learning assistant in Next.js, TypeScript, and Groq LLM that transforms complex concepts into adaptive explainervideos with interactive comprehension quizzes.
- Integrated Pexels API, shadcn/ui, and Tailwind CSS to create a visually rich and responsive interface emphasizing system performance and low-latency inference.

- MAILY-AI Mailing & Schedule Agent (May 2025 - Jun 2025)
- Developed an AI-driven scheduling and mailing agent using n8n automation workflows and Groq LLM for seamless cross-platform coordination across Gmail, Calendar, and Sheets.
- Focused on operational reliability, enabling consistent task handling, context retention, and adaptive response generation across dynamic scheduling scenarios.

- Diabetic Retinopathy Detection (Dec 2023 - May 2024)
- Created a Flask-based diagnostic platform utilizing EfficientNet B0 and OpenCV for AI-assisted retina image analysis on low-cost devices.
- Designed the model and interface to support rural healthcare deployment, emphasizing usability, portability, and accessibility in low-resource clinical settings.

EDUCATION

M.S., Data Science, Analytics & Engineering (Aug 2024 - May 2026, Expected), Arizona State University, Tempe, AZ - Coursework: Statistical ML, Big Data Analysis, Data Mining, Applied Optimization & Linear Programming, Cloud Computing B.Tech, Computer Science (AI/ML) (Aug 2020 - May 2024), Vellore Institute of Technology, Chennai, India - Coursework: Machine Learning, Deep Learning & Neural Networks, Computer Vision, Database Management Systems

CERTIFICATIONS

(None)