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## Summary

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Highly motivated and detail-oriented software developer with expertise in machine learning and data engineering. Proven track record of designing and deploying scalable data pipelines and infrastructure for multimodal LLM training. Skilled in programming languages such as Python, R, and SQL, with experience in data science and analytics tools like Tableau, Power BI, and Streamlit.

## Education

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GPA:

university=Arizona State University, college=, graduation=Expected May 2026, grade=, program=M.S., Data Science, Analytics Engineering, coursework=Statistical ML, Big Data Analysis, Data Mining, Applied Optimization Linear Programming, Cloud Computing ]

GPA:

university=Vellore Institute of Technology, college=, graduation=May 2024, grade=, program=B.Tech, Computer Science (AI/ML), coursework=Machine Learning, Deep Learning Neural Networks, Computer Vision, Database Management Systems ]

## Technical Skills

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

## Professional Experience

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, company=Amrutanjan HealthCare Ltd., location=Chennai, India, position=Data Analyst Intern, duration=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 nationwide sales 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.

## Projects

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title=SlideSage AI, duration=Aug 2025 - Oct 2025, keyHighlight=Built an AI-powered learning assistant in Next.js, TypeScript, and Groq LLM that transforms complex concepts into adaptive explainer videos with interactive comprehension quizzes. ]

- Integrated Pexels API, shadcn/ui, and TailwindCSS to create a visually rich and responsive interface emphasizing system performance and low-latency inference.
- Focused on operational reliability, enabling consistent task handling, context retention, and adaptive response generation across dynamic scheduling scenarios.

title=MAILY - AI Mailing Schedule Agent, duration=May 2025 - Jun 2025, keyHighlight=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. ]

- Emphasized operational reliability, enabling consistent task handling, context retention, and adaptive response generation across dynamic scheduling scenarios.

title=Diabetic Retinopathy Detection, duration=Dec 2023 - May 2024, keyHighlight=Created a Flask-based diagnostic platform utilizing EfficientNetB0 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.