KAARTHIK ANDAVAR

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EDUCATION

- **University of Canterbury** — Christchurch, NZ
  M.S - Data Science — *July 2019 - July 2020*
- **Amrita University** — Coimbatore, India
  B.TECH - Electronics and Communication Engineering — *April 2013 - April 2017*

SKILLS SUMMARY

- **Programming Languages**: Python, SQL, Typescript
- **Data Science & ML**: Snowpark, Pandas, NumPy, Scikit-Learn, Matplotlib, Langchain, Hugging Face
- **Databases**: MySQL, Snowflake, PostgreSQL, MongoDB, DynamoDB
- **Cloud & DevOps**: AWS, Git, GitHub, Pulumi, Terraform, Docker, Cloudflare
- **Full-Stack Development**: HTML, Tailwind CSS, JavaScript, FastAPI, React, NextJS, HonoJS
- **Tools & Platforms**: DBT, Airflow, AWS QuickSight, Streamlit, HEX, AWS Personalize, AWS Sagemaker, PowerBI

EXPERIENCE

- Data & Analytics Engineer | **Laybuy** — July 2021 - June 2024
  Auckland
  - Collaborated on data warehouse migration from Redshift to Snowflake, handling high-volume data.
  - Led ETL migration of ∼100 BI dashboards from Chartio to AWS Quicksight.
  - Reduced machine learning operational costs by 99.4% through migration from Datarobot to AWS SageMaker.
  - Engineered Recommendation Engine for Laybuy App using AWS Personalize, Airflow, and Snowflake.

- Analyst (Data Science) | **Stats NZ** — March 2021 - June 2021
  Christchurch
  - Performed Sentiment Analysis on NZ news articles from Common Crawl (40TB of raw web data).
  - Extracted global news from GDELT, monitoring news across 100+ languages.
  - Developed indicators for Covid-19 recovery monitoring and Data Portal updates.

- Data Scientist (Internship) | **Freightways Information Service** — Nov 2020 - March 2021
  Auckland
  - Implemented data modeling to enhance business process efficiency and forecasting.
  - Analyzed customer churn patterns to identify high-risk accounts and prevent business loss.
  - Developed customer segmentation system based on behavioral data analysis.

- Network Engineer | **Mercedes-Benz Research and Development India** — Nov 2017 - Jul 2019
  Bengaluru
  - Managed client network infrastructure using BMC Remedy (CISM), ensuring optimal performance and security.
  - Conducted advanced troubleshooting of hardware/network issues, analyzing logs, debugs, and configurations.
  - Implemented and maintained network security policies, keeping infrastructure up-to-date and secure.
  - Handled critical cases and escalations, ensuring adherence to SLAs and minimizing downtime.

PROJECTS

- **snowChat**: [GitHub] Developed an AI-based auto text-to-SQL chatbot for Snowflake using Streamlit, LangChain, GPT-4, and LLAMA models. Implemented in Python, enabling natural language queries to generate SQL for Snowflake databases
- **snowBrain AGUI**: [GitHub] Created an AI-driven Snowflake insights platform with a chatbot capable of generating SQL and graphs from natural language input. Utilized Next.js, Tailwind CSS, Snowflake Node.js SDK, React Server Components, and TypeScript for a responsive and efficient user interface.
- **snowSend**: Engineered a system for sending dynamic emails directly from Snowflake in real-time. Leveraged AWS Lambda through Snowflake external functions, implemented with Pulumi and TypeScript for infrastructure as code.
- **Tryoutfit**: Developed an AI-based virtual try-on web application using Next.js and AWS Amplify. Integrated AWS DynamoDB and S3 for data storage, and implemented an AI model for virtual outfit visualization.

ACHIEVEMENTS

- Snowflake Streamlit AI Hackathon Winner (2023)
- Cloudflare AI Hackathon Winner (2024)
- Creator at Streamlit