Kannan A

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EXECUTIVE SUMMARY

Data Engineer with hands-on experience building production-grade data pipelines and cloud-native applications at Ncompass Tech Studio Pvt Ltd. Skilled in Dagster-based data orchestration, advanced SQL (MySQL), and end-to-end data asset development. Strong expertise in AWS services including Lambda, API Gateway, EC2, ECR, CodePipeline, CloudWatch, and SAM CLI for scalable, automated workflows. Proficient in Docker and backend development using JavaScript, Node.js, Express, and TypeScript, with foundational React knowledge. Experienced in delivering reliable, high-performance systems in real-world production environments.

EDUCATION

Sri Sairam Institute Of Technology   April 2025
B.Tech in Artificial Intelligence and Data Science

EXPERIENCE

Ncompass Tech Studio Pvt. Ltd | *Software Development Engineer I – Data Engineering & Analytics*   Aug 2025 – Present
- Built production data pipelines and centralized assets using Dagster and advanced SQL for a SaaS analytics platform.
- Architected serverless cloud data services using AWS Lambda, API Gateway, RDS, S3, EC2, ECS, and CloudWatch.
- Optimized database access with secure tunneling and DuckDB-based processing to improve system performance and scalability.

Ncompass Tech Studio Pvt. Ltd | *Software Engineering Intern*   Apr 2025 – Jul 2025
- Gained hands-on experience with Linux, Git, MySQL, Node.js, Express, and TypeScript for backend development.
- Built REST APIs and serverless applications using AWS SAM CLI, Lambda, and Docker.

Andiran Health-tech Pvt. Ltd | *Artificial Intelligence Intern*   Jun 2024 – Aug 2024
- Developed a 10,000+ image dataset for a real-time mood-board generation product using Stable Diffusion and OpenAI tools.

SKILLS

Programming Languages: Python, SQL (MySQL), JavaScript, TypeScript, Java, HTML5/CSS
Data Engineering & Processing: Dagster, PySpark, Databricks, DuckDB, SQLAlchemy, PyMySQL
Cloud & DevOps: AWS Lambda, API Gateway, S3, RDS, EC2, ECS, CloudWatch, CodePipeline, SAM CLI, Docker
Backend & Web: Node.js, Express.js, REST APIs, React (basic)
AI/ML (Foundational): Pandas, NumPy, Scikit-learn, TensorFlow, Computer Vision, Data Analysis
Tools: Git/GitHub, VS Code, Power BI, Excel

KEY PROJECTS

Geo-based Infrastructure Issue Reporting Platform | *JavaScript, APIs, Geolocation, Data Integration*   Build2Learn Event
- Built a live geolocation-based web platform to report infrastructure issues and dynamically fetch contextual representative data via public APIs.
- Integrated and validated multiple APIs to enable real-time data processing with reliable system performance.

Recommendation Engine | *Python, Numpy, Tensorflow, Collaborative Filtering, StreamLit, Github, VS Code*   May 2024
- Developed a web application with StreamLit for Qtuxathon 2024 Hackathon under 24 hours, Earned recognition from Professors of Universiti Teknologi Petronas

Facial Emotion Recognition | *Python, OpenCV, Tensorflow, Mediapipe, Stream-Lit*   Sep 2024
- Created a Stream-Lit application that recognizes Facial Emotions in real time

KEY CERTIFICATIONS

Infrastructure: Red Hat Certified System Administrator (RHCSA)
Data Engineering: PySpark – Apache Spark Programming in Python (Udemy)
Artificial Intelligence & Machine Learning: Machine Learning, Deep Learning & Reinforcement Learning (IIT Madras & IIT Ropar)

LEADERSHIP ROLES

Chairman, Futura'24 Symposium | *Led 170+ students and increased event registrations by 30%*   Sept 2024 – April 2025

AWARDS

TECHXP 2024 **Champions** at Universiti Teknologi Petronas   Jul 2024