

Manan Niraj Karnik

+60186609550 | manank31@gmail.com

Education

Monash University Malaysia, Bachelor of Computer Science in Data Science

[October 2021 - July 2025]

- **Relevant Coursework:** Business Analytics, Big Data Management, Data Analytics, Algorithms & Data Structures, Databases, Artificial Intelligence, Android Application Development, Operating Systems, Agile Project & Management

Experience

XANALYTS (Australia), Data Analyst (*Contract, Remote*)

[October 2025 - Present]

- Designed and engineered automated data pipelines to ingest, transform, and store complex, multi-gigabyte datasets, bridging technical data processing with high-level business needs.
- Developed machine learning and time series forecasting models to predict future product prices, enabling proactive, data-driven catalog and pricing strategies.
- Built custom internal tools and web scraping scripts to automate the extraction of actionable data from external sites, significantly reducing manual data entry overhead and various utilities to automate manual work.
- Conducted in depth data analysis and created dynamic Power BI visual reports to track key metrics and drive data informed decision-making.

Selangor Human Resource Development Centre, Artificial Intelligence Engineer

[November 2023 - February 2024]

- Integrated open-source Large Language Models (LLMs) from Hugging Face into partner software systems.
- Fine-tuned models (LLaMA, Mistral, Falcon & more) for domain-specific tasks such as document summarization
- Developed a backend system to facilitate secure API calls to locally hosted LLMs, ensuring data privacy and internal use.
- Collaborated with cross-functional teams to embed AI features into full-stack applications.
- Maintained version control and documentation for reproducibility and team-wide collaboration.

Projects

Full-Stack B2B Product & Order Management System

- Built a full-stack B2B product catalog and order management system using Next.js 14, TypeScript, Supabase, and Tailwind CSS
- Engineered direct browser-to-cloud image uploads, chunked CSV/Excel import pipeline, and tiered pricing engine supporting 1,200+ SKUs across multiple customer price categories
- Implemented real-time stock management with atomic PostgreSQL functions, automated order emails with Excel attachments, and a paginated admin dashboard for product and order management

Automated Catalog Maker | [Link](#)

- Engineered a customizable utility to automate the layout and generation of large-scale product catalogs, rendering items into dynamic row-and-column grids (e.g for retail or e-commerce products).
- Integrated multi-file format support and robust customization features, significantly reducing manual formatting time while allowing for highly creative, user-defined PDF layouts.

Real-time Data Streaming and Analysis Application

- Created a real-time data ingestion and analytics system to process a continuous stream of climate data and store it.
- Wrote a Python program to fetch data and set up Apache Kafka producers to create real-time data streams.
- Processed incoming data using Spark Structured Streaming, and stored it in a MongoDB database (NoSQL)

Skills

- Languages and Frameworks: Python | Java | HTML | Git | SQL | NoSQL | Linux | Bash & Shell Scripting | Java Script | PowerBI | Tableau | QlikView
- Soft skills: Communication | Leadership | Management | Teamwork | Problem Solving | Adaptability