NISHANT DESHPANDE

Data Scientist

@ nxdeshpande@gmail.com   📞 +61 412 804 222   📍 Melbourne, Australia   in nxdeshpande   🌐 Australian Citizen

EXPERIENCE

Senior Data Scientist

Coles Group

📅 Mar 2023 – Ongoing   📍 Melbourne

- Leading a squad of data scientists in the Coles Advanced Analytics and Artificial Intelligence team. Collaborated on the development of machine learning models to forecast demand for thousands of products across 800+ Coles supermarkets. These models played a critical role in streamlining supply chain operations, optimising stock levels, and reducing waste, leading to several million dollar savings.
- Enhanced online demand forecasting accuracy for Coles, optimising inventory management resulting in growth of key customer satisfaction and engagement metrics (e.g. NPS).
- Extensive collaboration with stakeholders across the business to ensure effective use of model outputs, delivering impactful insights through tailored dashboards that clearly communicated key results and informed decision-making.

Data Scientist

Coles Group

📅 Feb 2021 - Mar 2023   📍 Melbourne

- Built a 5-year transaction dataset for Coles using Databricks & Snowflake, improving scalability and efficiency in training machine learning models, while also reducing costs.
- Used Databricks' Jobs API to refresh this data set and process more than 5 million of transactions each day.
- Developed deep learning models to forecast demand for Coles, capturing complex seasonal demand patterns
- Led continuous model validation in production environments, monitoring for data drift and detecting potential outliers. Implemented automated re-training workflows to maintain model accuracy and ensure performance stability under shifting data distributions.
- Enhanced Coles' forecasting solution to be sensitive to weather effects. Created a new ETL process which involved combining Coles' supermarket data with publicly available weather station data from the Bureau of Meteorology.
- Conducted comprehensive data analysis on the effects of COVID-19-induced panic buying, identifying significant disruptions in data quality that could skew machine learning model performance, and developed strategies to mitigate this impact.

Graduate Data Scientist

Coles Group

📅 Feb 2020 - Feb 2021   📍 Melbourne

- Developed an in-house R package to automate the setup and execution of A/B tests for data science experiments, enabling efficient experiment design, model evaluation and hypothesis testing.
- Evaluated price optimization algorithms through A/B testing and statistical analysis, delivering measurable EBIT gains.

EDUCATION

Master of Data Science

Monash University

📅 Feb 2017 – Nov 2018

Applied Machine Learning

Bachelor of Science

University of Melbourne

📅 Feb 2012 – Nov 2015

Biochemistry & Molecular Biology

SKILLS

Python   R   SQL   Spark (Scala)   C++   UNIX   Docker

PyTorch   TensorFlow   Transformers   Supervised ML   NLP

Git   Agile   PowerBI   Tableau

CERTIFICATIONS

Databricks
Lakehouse Fundamentals

Databricks
Associate Data Engineer

Microsoft
Azure Data Scientist Associate

LANGUAGES

English   ●●●●●
Hindi   ●●●○○
French   ●●●○○

REFEREES

Available on request