# NISHANT DESHPANDE

### **Data Scientist**

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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-19induced 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

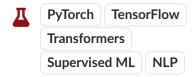
# University of Melbourne

Feb 2012 - Nov 2015

Biochemistry & Molecular Biology

## SKILLS







## CERTIFICATIONS



## **Databricks**

Lakehouse Fundamentals



### **Databricks**

Associate Data Engineer



#### Microsoft

Azure Data Scientist Associate

# **LANGUAGES**

English Hindi French



## REFEREES

Available on request