

# ALEX THOMAS

Melbourne, VIC | 0434 037 994 | [alexpeterthomas@gmail.com](mailto:alexpeterthomas@gmail.com) | [Linkedin](#) | [Github](#) | [Portfolio](#)

## DATA SCIENTIST HIGHLIGHTS

---

Data Scientist with 3 years of experience in identifying transforming business requirements into actionable insights through data-driven decision making and developing cutting-edge machine learning algorithms.

- Developed robust ETL pipeline through Python for preprocessing which improved operational efficiency by 20%.
- Designed and implemented machine learning algorithms including Decision Tree, LightGBM, and Logistic Regression for predictive modeling applications, including credit risk assessment, and product classification.
- Deployed advanced deep learning models (such as ResNet-50, CNN) and NLP models for facial emotion prediction, Image classification, Stance classification and Sentiment analysis.
- Implemented and deployed a machine learning audience generator, enhancing marketing efforts based on live social media data.

**TECHNICAL SKILLS:** Python | R | SQL | Tableau | ML | Data Mining | Data Analysis | Data Modeling | NLP | PowerBI

## EXPERIENCE

---

### AMW TECH

*Graduate Data Scientist*

MELBOURNE, VIC

*July 2023 – December 2023*

- Led the end-to-end development and deployment of a web application using Python Flask and Heroku. Integrated a RoBERTa-based transformer model to generate audience segments, significantly improving targeted marketing strategies for advertisers through precise, data-driven insights.
- Extracted and analyzed live data from Social Media APIs (X, Reddit, YouTube) focusing on user-entered keywords and ensuring compliance with ethical guidelines. This met the client's requirement for responsible data collection, successfully acquiring data from all targeted platforms.
- Automated data preprocessing by developing a Python script to build a robust ETL (Extract, Transform, Load) pipeline for the built NLP (Natural language processing) model.
- Enhanced data storage and retrieval efficiency by designing and managing SQL databases, enabling streamlined handling of large datasets for accurate model predictions.

### LARSEN & TOUBRO INFOTECH PVT. LTD

*SAP Data Analyst*

MUMBAI, INDIA

*November 2020 – August 2021*

- Gathered data from system monitoring across various ECC and S/4 HANA landscapes (ABAP, PI, BI, BO) with SAP and non-SAP Databases to assess system status and ensure compliance with the SLA contract.
- Designed and implemented real-time system monitoring dashboards in Solution Manager ensuring 95% SLA satisfaction.
- Developed visualizations using Power BI to highlight trends and identify system issues, which were incorporated into monthly reports. These visualizations improved the clarity and actionability of the reports.
- Generated and published monthly analytical reports to provide insights and track system performance, enabling proactive monitoring to avoid downtime. This initiative improved system reliability, reducing downtime incidents by 25% and enhancing overall operational efficiency.

### LARSEN & TOUBRO INFOTECH PVT. LTD

*SAP Consultant*

MUMBAI, INDIA

*July 2018 – August 2021*

- Implemented various modules of Solution Manager, including Change Request Management, Test Plan Management, Business Process Monitoring, and System Monitoring, as per requirements. Actively involved in the design and delivery of pragmatic Application Landscape Management (ALM) solutions, improving operational efficiency by 15%.
- Managed multiple clients in the manufacturing industry, including MRC Global and ROCKWOOL, by monitoring business processes, automating existing transactions, and building a framework for solution documentation. These efforts enhanced operational efficiency and streamlined business operations for the clients.
- Collaborated with the Indian Army as a client to build and implement Change Request Management and monitoring their system landscape. Improving their existing operational efficiency and readiness.
- Conducted planning and knowledge transfer (KT) sessions with clients and project team members, incorporating feedback during implementation and post-deployment phases through weekly team meetings. This agile approach ensured smooth transitions, improved team collaboration, and increased client satisfaction.

# EDUCATION

---

## RMIT UNIVERSITY

*Master in Data Science (GPA:3.6/4)*

MELBOURNE, VIC

*February 2022 – December 2023*

## ST. FRANCIS INSTITUTE OF TECHNOLOGY

*Bachelor in Computer Engineering (CGPA: 7.32/10)*

MUMBAI, INDIA

*July 2014 – June 2018*

# NOTABLE PROJECTS

---

## CREDIT RISK PREDICTION WEBSITE

*Data Scientist*

MELBOURNE, VIC

*July 2022 – December 2022*

- Developed a credit risk prediction website using Python Flask, integrating machine learning algorithms (Decision Tree, LightGBM, and Logistic Regression) to predict customer credit risk.
- Enhanced visualization using Tableau and focused on providing better explainability to customers by displaying the major contributing features towards the prediction.
- Developed and implemented risk mitigation strategies for customers with high credit risk, enabling them to strengthen their credit profiles and increase their eligibility for loan applications.

## FACIAL EMOTION PREDICTION

*Data Scientist*

MELBOURNE, VIC

*July 2023 – December 2023*

- Built a neural network model to classify human facial emotions from image input.
- Enhanced model performance by implementing and tuning the ResNet-50 deep learning model, achieving significant improvements across accuracy, macro F1 score, precision, and recall, with an overall performance boost of 10%.
- Maintained data integrity by carefully segmenting data by subject, preventing data leakage after comprehensive cleaning and augmentation.

## COVID-19 DATABASE DESIGN AND ANALYSIS

*Data Scientist*

MELBOURNE, VIC

*Feb 2022 – June 2023*

- Collated and Analysed data from various dataset files and designed the vaccination database schema through ER diagram for efficient data storage.
- Developed SQL scripts to create database relations and integrity constraints.
- Executed complex SQL queries to analyze vaccination data, including vaccine administration rates and comparative country analysis.
- Created visualizations utilised Tableau to present query results, enhancing data-driven insights.

# OTHER EXPERIENCE

---

## MCDONALD'S

*Crew Member*

MELBOURNE, VIC

*July 2022 - present*

- Achieved a 95% order fulfillment rate by consistently meeting customer demands in a high-paced environment, resulting in increased customer satisfaction.
- Collaborated amongst team members to maintain a clean and quick service.
- Increased customer satisfaction scores by 15% by addressing grievances promptly and maintaining high service standards.

# CERTIFICATIONS

---

- Google Data Analytics Professional Certificate.
- Microsoft Certified: Azure Data Fundamentals
- Microsoft Certified: Azure AI Fundamentals.
- Microsoft Certified: Power Platform Fundamentals.

# EXTRA-CURRICULAR ACTIVITIES

---

- Competed in the AWS RMIT Cyber Jam, a hackathon focused on developing advanced AWS cloud skills.
- Participated in the RMIT Big Industry Challenge (November 2022), a micro-internship in collaboration with the Young Workers Centre, developing innovative ideas to improve the completion rate of women in apprenticeship programs.
- Participated in the RMIT Big Industry Challenge (November 2023), a micro-internship in collaboration with Intelligent Water Network, developing creative strategies to encourage Victorians to reduce water usage.
- Completed Digital Industry Projects with Practera conducting research on the current scope and applications of the metaverse and Web 3 technologies in the education sector.
- Peer Mentor for the courses Practical Data Science, Data Wrangling, Data Visualization and Communication, Applied Analytics at RMIT University (July 2022 – November 2023).