

# Jade Magbanua

## Data Analyst | Bachelor's in digital technology

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### Professional Summary

Data-driven Digital Technology student with expertise in statistical analysis, machine learning, and data visualization. Proven experience in AI model training, database design, and full-stack development. Strong analytical mindset combined with practical experience in customer-facing roles, demonstrating the ability to translate complex data insights into actionable business solutions.

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### Technical Experience

**Prompt Engineer – Outlier AI (Freelance)** | Jun 2024 – Present - Developed and optimized AI training prompts for programming applications, improving model accuracy through response pattern analysis. - Applied data analysis techniques to evaluate AI model performance and identify improvement opportunities. - Created automated testing frameworks for prompt effectiveness using programming skills.

**Data Analytics Projects (Academic & Personal)** | 2022 – Present

**Big Data Analysis:** Processed and analyzed large datasets using Python (pandas, NumPy) and scikit-learn.

**Machine Learning:** Built predictive models using regression, classification, and clustering.

**Database Management:** Designed relational databases with optimized SQL queries.

**Visualization:** Developed interactive dashboards with Power BI, Excel, and Python visualization libraries.

**API Development:** Built RESTful APIs for data integration and automated reporting.

**Data Pipelines:** Designed Alteryx workflows for automated data processing.

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### Relevant Work Experience

**Pharmacy Assistant – Chemist Warehouse (Part-Time)** | Dec 2024 – Present - Analyzed inventory data to optimize stock levels and purchasing patterns. - Maintained accurate database records for products and customer information.

**Retail Assistant – New World, Howick** | November 2021 – 2024 - Analyzed sales data to support inventory management decisions. - Generated POS reports for management decision-making.

**Crew Member – McDonald's, Manukau** | Feb 2021 – Aug 2021 - Delivered high-quality customer service in a fast-paced environment.

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### Education

**Bachelor of Digital Technology – Data Analytics** | Manukau Institute of Technology | Expected Mar 2026 - Coursework: Statistical Analysis, Database Management, Machine Learning, Data Visualization, Business Intelligence.

**Ormiston Senior College** | Dec 2020 - NZQA Level 3, strong foundation in Sciences and Statistics.

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## Technical Skills

**Programming & Analytics:** Python (pandas, NumPy, scikit-learn), C#, Java, SQL

**Data Tools:** Excel (Advanced), Power BI, Alteryx, SPSS

**Databases:** MySQL, MongoDB, database design and optimization

**Machine Learning:** Regression, classification, clustering, predictive modeling

**Visualization:** Power BI, Tableau, Matplotlib, Seaborn, Plotly

**Development & Integration:** RESTful APIs, ETL processes, Git/GitHub

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## Key Projects | GitHub Portfolio

- **Advanced Data Analysis Project:** Machine learning model with 85% accuracy predicting customer behavior.
  - **Business Intelligence Dashboard:** Power BI dashboard with KPI tracking and trend analysis.
  - **Database Optimization:** Normalized inventory management database, reducing query time by 40%.
  - **Machine Learning Pipeline:** End-to-end ML pipeline deployed via web API for real-time predictions.
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## Leadership & Collaboration

**Youth Leader – Pilgrim Baptist Church (Volunteer)** | 2022 – Present - Led data-driven program evaluations to measure engagement and impact. - Developed KPIs to track success and guide community initiatives.

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## Certifications & Continuous Learning

- NCEA Level 3
- NCEA Level 2 with merit
- NCEA Level 1 with merit
- New Zealand Certificate in Food and Beverage Service (Level 3)
- Full Driver's license
- Regular blood donor since 2024