

Vivek Raghunathan

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Summary

Senior Data & AI Analyst with 8+ years of experience delivering advanced analytics and AI solutions across complex, multi-source datasets. Proven track record in full project lifecycle — from raw data through predictive modelling and deployment as business-ready tools. Skilled at stakeholder engagement and data storytelling, translating complex outputs into clear, actionable recommendations that drive measurable business value.

Key Skills

- **Programming & Data:** Python (pandas, numpy), SQL, Data Wrangling
 - **Machine Learning & AI:** Scikit-learn, XGBoost, Predictive Modelling, Explainable AI (SHAP)
 - **Visualisation & BI:** Power BI, Qlik Sense, Microsoft Excel, Matplotlib, Dashboard Design
 - **Deployment & Engineering:** Flask, Render, GitHub CI/CD, API integration
 - **Consulting & Delivery:** Stakeholder Engagement, Data Storytelling, Cross-functional Collaboration
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Independent AI Projects

Each project demonstrates end-to-end AI delivery — from raw data through model development to deployment as client-ready web tools.

Heart Disease Predictor – Logistic Regression with SHAP explainability; deployed as Flask web app on Render.

Stroke Risk Predictor – XGBoost model with user-friendly interface; focuses on responsible AI transparency.

Diabetes Risk Model – End-to-end ML pipeline with feature engineering, hyperparameter tuning, and deployment.

Used Car Price Predictor – Flask-based app using Random Forest with target encoding; features dynamic dropdowns and CSV logging.

Professional Experience

Health New Zealand – Te Whatu Ora | Hamilton

Senior Data Scientist | Jan 2024 – Present

- Designed and implemented advanced analytics frameworks to enhance business performance monitoring and decision-making.
- Developed national-level performance dashboards, integrating multi-source data to deliver transparency and improve strategic planning across multiple regions.
- Collaborated with senior stakeholders to apply predictive analytics for workforce optimisation and operational efficiency.

Health New Zealand – Te Whatu Ora | Hamilton

Intelligence & Insights Business Partner | Jan 2022 – Dec 2023

- Built and deployed near real-time business intelligence tools, integrating operational and workforce data, reducing manual processes and enabling faster decision-making.
- Engineered scalable data models to standardise and streamline national reporting.
- Produced analytics on workforce and demand metrics to optimise resourcing decisions and drive operational improvements.
- Delivered cohort analysis and service utilisation insights, creating visibility of customer activity and demographics to inform service delivery planning.

Waikato District Health Board | Hamilton

Data Analyst | Sep 2018 – Dec 2021

- Designed and deployed automated reporting solutions, eliminating manual processes and improving data reliability.
 - Conducted impact analysis using before/after service interventions, providing evidence of programme effectiveness.
 - Led equity-focused analytics projects, leveraging data to inform strategy and support priority populations.
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References

Available upon request.