Japekam Singh Dang

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EDUCATION

University of Auckland	**Auckland, NZ**
B.Sc. in Data Science	*Expected Graduation, Nov 2025*

Related Coursework: Statistical Modelling, Machine Learning, Data Analysis, Data Cleaning, Preprocessing, Probability & Its Application, Data Structures & Algorithms, Python, R, SQL, Excel, JavaScript, Combinatorics, AI, OOP, Calculus & Linear Algebra.

WORK EXPERIENCE

Staymaxx Ltd.	**Remote**
Business Analyst Intern/Contractor	*May 2025 – Present*

- Utilized **SQL** and **Python** to analyze raw material procurement logs, identifying suppliers with the lowest non-conformance rates in critical implant-grade alloys (e.g., **SS316L**, **Ti Grade 5 ELI**), enhancing supplier selection and reducing quality-related rejections by 30%.
- Designed a **Power BI** dashboard and implemented a **dynamic reorder alert system** based on usage patterns and batch consumption data, optimising inventory turnover for over 30 raw material SKUs.
- Conducted statistical analysis using **R** and **machine learning** techniques to isolate patterns in **BMR-stage rejection trends** (e.g., improper bending in Proximal Tibia Raft Plates), enabling a 60% drop in defect rates.
- Applied **Agile methodology** to collaborate with production and QA teams & analyzed machine downtime logs to trace recurring tool failures (e.g., 3mm endmills), reporting correct actions that recovered over 8 hrs/month of machining productivity.

Orion E Solutions	**Remote**
Data Science Intern/Contractor	*March 2025 – May 2025*

- Built a supervised machine learning model using Python and R to predict housing price trends with 97% accuracy. Included key property metrics such as land area, floor size, bedroom count, build year, and suburb. Helped improve forecasting and investment planning.
- Used SQL to extract, clean, and merge over 500,000 records from different data sources. Improved data quality and model performance by 25 percent through consistent preprocessing.
- Created an interactive Power BI dashboard to display real-time trends in property values, suburb-level growth, and price per square metre. This reduced manual reporting time by 30% and supported faster decision-making.

Sony New Zealand	**Mt Wellington, Auckland**
Part-time Sales Consultant	*May 2023 – March 2025*

- Ranked as the top part-time sales consultant across NZ and Australia, consistently achieving 120% of sales targets.
- Leveraged product knowledge and negotiation skills to close high-value deals, boosting customer retention by 30%.

TOP PROJECTS

- **NZTA Driver's License Project—[View here](#)**

Analyzed NZTA's driver license dataset (9,800+ records) using Python (Pandas, Seaborn) to identify key licensing trends across demographics and time, deriving actionable insights. **Engineered features and developed** a Python-based preprocessing pipeline, preparing complex data for machine learning applications. **Built and evaluated classification models (Random Forest achieving 92% accuracy**) with Scikit-learn to predict license stages; benchmarked various algorithms, including Logistic Regression and Gradient Boosting. **Tech:** Python, Pandas, Scikit-learn, Matplotlib, Seaborn, Jupyter Notebooks.

- **Energy Consumption Forecasting—[View here](#)**

Modeled household energy usage using decision trees, random forests, and XGBoost with cross-validation. Applied preprocessing and engineered features from time series data. **Result:** XGBoost achieved an RMSE of 5.11 and an R^2 of 0.59 on the test set. **Tech:** R, caret, ggplot2, dplyr, XGBoost, Random Forest

- **Cricket Power BI Dashboard —[View here](#)**

Built an interactive dashboard analyzing match stats, player records, and team performance across tournaments. **Tech:** Power BI, Excel, SQL.

ACTIVITIES AND LEADERSHIP

Statistics Department, University of Auckland	**Auckland, NZ**
Class representative for STATS 220 (Data Technologies)	*February 2024 – June 2024*

Abacus/Mathematics Tutor Auckland, NZ
Self-Employed *January 2025 – Present*
Teaching 3-4 young students some cool mathematics skills through abacus on Sunday.

Member Auckland, NZ
Data Science Club, University of Auckland February 2023 – *Present*

SKILLS

Programming: Python and its Libraries, **R** and its Libraries, **SQL**, JavaScript, HTML/CSS, MATLAB
Cloud Platforms & Tools: Azure, SAC, AWS, **PowerBI, Tableau, Excel,** Jupyter Notebooks, **Git**, Hadoop**,** Apache Spark(databricks), MONGODB, NoSQL, Jira
Other Skills: Machine Learning, Neural Networks, Mathematical Modelling, Communication, Analytical Problem Solving.

AWARDS AND ACCOMPLISHMENTS

CompSci Department, University of Auckland Auckland, NZ
Class Topper - CS 225 Discrete Structures in Mathematics and Computer Science *February 2024 – June 2024*

COURSES

MACHINE LEARNING, UDEMY - Covered supervised and unsupervised learning, model evaluation techniques, and real-world projects using Python. Gained hands-on experience with libraries like scikit-learn, pandas, NumPy, and matplotlib.
AZURE FUNDAMENTALS - DP900, MICROSOFT - Introduced to core concepts of cloud data services including relational and non-relational databases, data storage, and data processing. Learnt basics of Azure SQL, Azure Cosmos DB, and data analytics tools within the Azure platform.
DATA ANALYSIS, GOOGLE (COURSERA) - Focused on data cleaning, visualisation, and analysis using spreadsheets, SQL, and R. Developed skills in data wrangling, creating dashboards, and interpreting results to support business decision-making.

Hobbies & Languages

Hobbies: Travelling, Photography, Dancing   **Languages:** English, Hindi, Punjabi

REFERENCES - AVAILABLE ON REQUEST