

# Shayna Nicholas Tuscano

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**Phone:** +353 892482291

**Location:** Galway, Ireland

## Education

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### MSc in Computer Science - Data Analytics

*University of Galway*

Sep 2023 - Aug 2024

Grade 1:1 (Expected)

Relevant Coursework: Practical Statistics, Information Retrieval, Data Visualisation, Machine Learning, R, NLP, Deep Learning, Applied Statistics, Web and Network Science.

### Bachelor of Engineering in Electronics

*Fr. Conceicao Rodrigues College of Engineering*

Aug 2018 - Aug 2022

CGPA 9.4

Relevant Coursework: Java, IoT, Database Management, Computer Networks, Neural Networks, Microcontrollers, Embedded Systems, VLSI, Power Electronics.

## Personal Projects

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### Nike Sales Dashboard

- Developed an interactive, data-driven sales dashboard using Tableau to visualize key performance indicators (KPIs) for Nike's product sales.
- Integrated dynamic filters and insightful visualizations to track sales trends, customer behavior, and product performance, enabling stakeholders to make data-driven decisions effectively.

### Electronics Formula Calculator

- Built a user-friendly GUI application using Python and Tkinter to perform essential electronics and electrical calculations such as Ohm's Law, capacitance, power, frequency, and time constants.
- Simplified complex computations for students and professionals, enhancing accuracy and productivity in electrical and electronics calculations.

### Statistical Analysis of Defect Detection in Manufacturing

- Optimized quality control processes in a manufacturing plant by analyzing defect occurrences and repair costs.
- Applied statistical hypothesis testing, including ANOVA and Kruskal-Wallis tests, to evaluate inspection techniques and identify patterns in defect types.

### Wind Speed Prediction using Deep Learning

- Conducted a comparative study of LSTM, 1D CNN, and hybrid deep learning models for wind speed forecasting, improving model performance for efficient grid integration.
- Involved in data cleaning, feature engineering, and model optimization to enhance energy system stability and forecasting accuracy.

## Skills

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**Programming Languages:** R, Python, Java

**Data Science:** TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas

**Database Technologies:** MySQL

**Web Technologies:** HTML, CSS, JavaScript

**Tools:** Git, Excel, Tableau

## Work Experience

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**Thermovision Technologies**, (*Engineering Trainee*)

Sep 2022 - Mar 2023

- Conducted thorough data analysis of vendor bids and market trends, which led to reduction in procurement costs through informed decision-making and strategic selection.
- Worked closely with internal engineering and procurement teams to translate technical product specifications into clear, actionable procurement needs, ensuring alignment between project goals and vendor deliverables.
- Built and maintained strong relationships with vendors, negotiating pricing and terms to achieve optimal balance between cost, quality, and timely delivery.
- Managed multiple procurement projects simultaneously, demonstrating flexibility in adapting to shifting priorities and deadlines.

## Certification

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- Tableau 2024 A-Z: Hands-On Tableau Training for Data Science.

## Interests

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- Yoga and Meditation for maintaining focus, discipline, and a proactive mindset.
- Reading for personal development.