KELLY B. IRAHOLA VALLEJOS

Katy, TX| https://www.linkedin.com/in/kelly-irahola-775b53212/ | https://kellyb-iraholav-web-psi.vercel.app/ |

EDUCATION

Master of Science in Computer Science with Honors (Integrated) | University of Exeter, United Kingdom   Degree obtained June 2025

RELEVANT EXPERIENCE

Lead Teachers Assistant | Girls Who Code | USA *(June 2025 – Aug 2025)*

- Returned to teach in classes now consisting of 60+ students in live JavaScript sessions; managed debugging and breakout room facilitation over Zoom seamlessly.
- Coordinated with Discover Financial Services, and Insight Enterprises to deliver impactful outreach programs.

Events Assistant | University of Exeter's Student Guild | Exeter, United Kingdom *(September 2024 – June 2025)*

- Assisted in facilitating various events to enhance student community engagement.
- Supported event logistics and attendee engagement; strengthened public speaking, community building, and organizational skills.

Lead Teachers Assistant | Girls Who Code | USA *(May 2024 – July 2024)*

- Taught and supported 40+ students in live JavaScript sessions, about coding and game design principles; managed debugging and breakout room facilitation.
- Coordinated with Bank of America and Synchrony to deliver impactful STEM outreach programs.

Workshop Leader | ExCode Exeter Entrepreneurs | Exeter, United Kingdom *(October 2022 – December 2022)*

Led an 8-week Python training using Google Colab; tailored learning for beginners and supported diverse skill levels.

RELEVANT PROJECTS

Robotics Project for University of Exeter's Computer Science Outreach Programs *(Oct 2024–May 2025)*

- Co-Developed both a responsive front end to program robots' actions using Googles Blockly, and a backend to establish a connection between the front end, and the e-puck robots to execute said code.
- Wrote a formal evaluation report and delivered an oral presentation, demonstrating strong technical writing and communication.

Predicting Consumer Demographics from Shopping Data *(Nov–Dec 2023)*

- Built a Random Forest ML model achieving 75% accuracy in predicting gender from consumer behavior.
- Applied PCA for dimensionality reduction and SMOTE for class balancing to address bias and interpretability.
- Analyzed feature importance, uncovering behavioral drivers to support targeted marketing strategies.
- Evaluated performance with precision, recall, F1-score, and confusion matrix, and structured findings for non-technical stakeholders.

Interactive Django Web App – Sustainable Campus *(Nov 2022–Mar 2023)*

- Co-developed a full-stack web app (Python/Django/JavaScript) using QR location verification, virtual economy, and gamified user behavior.
- Built robust user authentication, item store, and friend-tracking functionality, and used Git for version control and SQL for backend data management.

TECHNICAL SKILLS

- Languages & Frameworks: Python, C++, JavaScript, Django, Java, SQL, scikit-learn, TensorFlow, PyTorch, HuggingFace, NLTK, SQL, React,js, Node JS
- Tools & Platforms: Github, Jupyter, SMOTE, PCA, BERT, Linux, MacOS, UNIX, VS Code, Eclipse, Atom, Zoom, Teams, Azure
- Concepts: Machine Learning, Sentiment Analysis, Inference Systems, NLP, Data Preprocessing, Model Evaluation, Optimization, Ensemble Methods, Dimensionality Reduction, Pen Testing, Metasploit, Kali, Ethical Hacking, AI Prompt engineering, Virtual Machines, Script, Report Writing, LaTex, Prompt engineering, APIs

Soft skills: Teamwork, collaboration, communication, flexible, adaptable, resilient, presentation

Languages: English (Fluent), Spanish (Fluent), Chinese (Limited), French (Elementary)