

Lee W. A. Scott

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EDUCATION

University of St Andrews BSC (Hons) Mathematics (Expected 2:1)	<i>Sep. 2021 – May 2025</i>
University of Glasgow Sutton Trust Summer School Engineering Academic Skills (A)	<i>Jul. 2020</i>
Greenfaulds High School Advanced Highers: Mathematics (A), Art and Design (C) Highers: Mathematics (A), English (A), Physics (A), Computing Science (A), Graphic Communication (A), Design and Manufacture (A), Art and Design (A)	<i>Aug. 2015 – Jun. 2021</i>

WORK EXPERIENCE

Sales Associate – TAAKs of Scotland Handled sales, managed store closing/operations and provided customer service. Developed strong organizational skills through maintaining the store. Enhanced collaboration and initiative by working effectively within a team to meet sales targets and deliver a positive customer experience.	<i>Sep. 2024 – Mar. 2025</i>
GCHQ Work Experience Day Gained insight into the operations of tech and cybersecurity industries. Exposed to tasks involving encryption, ethical hacking and data analysis. This experience sparked an interest in cybersecurity and strengthened my analytical skills.	<i>Jun. 2020</i>
Freelance Designer Created customized social media branding and advertisements for clients. Direct collaboration with clients has helped me to improve my client communication and project management skills. Working in a design-focused environment also enhanced my creativity, enabling me to deliver innovative solutions.	<i>2015 – 2019</i>

ACADEMIC PROJECTS

Optimal Treatment Methods for Breast Cancer Patients and Involvement of the Estrogen Receptor Gene (ESR1) in Method Choice (MT4561 Project) Explored the relationship between ESR1 gene expression levels and breast cancer treatment outcomes using the NKI Breast Cancer Dataset. Conducted an exploratory data analysis (EDA) and utilized statistical techniques (polynomial regression, Pearson correlation, hypothesis testing) to identify trends in survival outlooks and treatment efficacy across gene-expression/treatment subgroups.	<i>Sep. 2024 – Dec. 2024</i>
Predicting Fixed-Term Saving Deposits with Customer Data (ID5059 Project) Built predictive models using Scikit-Learn to classify if a customer would make a fixed-term saving deposit using bank marketing data from the UCI ML Repository. Performed an EDA, addressed class imbalances, engineered features and developed a pipeline to prepare for training. Trained and fine-tuned three different models using grid search and cross validation (macro average F1-score of 0.73 on test set for best performing model).	<i>Jan. 2025 – Feb. 2025</i>
Data Augmentation for Deep Learning on Images (Ongoing BSc Dissertation) Investigated how data augmentation affects CNN performance in classifying pigmented skin lesions utilizing TensorFlow and Keras on the Skin Cancer MNIST Dataset. Conducted an EDA, grid search for optimal data augmentation parameters and created augmented images to address class imbalance. Trained different models with and without augmented images. Now in the process of fine-tuning models and documenting findings in a research paper.	<i>Sep. 2024 – May. 2025</i>

AWARDS

General Wardlaw Scholarship – University of St Andrews Awarded a merit-based scholarship recognizing academic excellence in underprivileged students.	<i>2021</i>
1st in Advanced Higher Mathematics – Greenfaulds High School	<i>2021</i>
The Ascent – Saltire Award (50 Hours Volunteering, Completed at XS Taekwondo)	<i>2020</i>

SKILLS, ACTIVITIES AND INTERESTS

Programming Languages: Python, R, Java

Frameworks/Libraries: TensorFlow, Keras, Scikit-Learn, tidyverse, Git, NumPy, Pandas, Matplotlib, Seaborn

Tools and Software: Microsoft Office Suite, Jupyter Notebook, Adobe Photoshop, Cinema 4D

Activities: Scuba Diving (BSAC Ocean Diver) – University Sub Aqua Committee (Social Secretary, responsible for organizing meetings and promoting inclusivity). Taekwondo – earned a black belt and volunteered as an instructor, competed in Scottish, British and Pan-European Championships.

Interests: Chess, art/design, football, golf, hiking, cooking and nutrition.