

Georgia Sapsani

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SKILLS

Programming Languages:	Python (Pandas, NumPy, Matplotlib, Seaborn), HTML, CSS, Java
Databases:	MySQL, SPSS
BI & Visualization Tools:	Tableau, MS Excel (Pivot Table, VLOOKUP, Conditional Formatting)

PROJECTS

Study Performance Analysis

April 2024

- Cleaned and pre-processed 1,000 rows using Pandas in **Python & Excel** to prepare data for analysis and gain insights on students' performance
- Analysed data using **Python** to examine the impact of the parental background, test preparation, race/ethnicity, and lunch quality on student performance.
- Created dashboards using **Seaborn (Python)**, displaying the average scores on all three subjects and the impact other variables have on the study performance
- Interpreted trends in numeric data (maths, reading and writing scores) sets by finding strong and positive correlations between them

Bacteria Analysis

March 2024

- Cleaned and pre-processed 195 rows using **Excel** in order to ready data for analysis and extract insights on bacteria characteristics, leading to a 25% decrease in data processing time.
- Utilised functions and conditional formatting to analyse the different bacteria families present in various locations and identify which bacteria may pose a risk to human health.
- Developed two data visualisations, utilising **Excel** to analyse levels of harmful bacteria and pinpoint areas where beneficial bacteria are present.

Machine Learning (Course Project: Object Detector)

December 2023

- Worked on identifying objects within a series of images (laptop, monitor, keyboard, mouse, football ball, bee, train, letter M and T in relevant databases with the use of **TensorFlow, cv2 and NumPy (Python)**
- Simplified the supply in new images and reported visible objects from the given list

Problem Solving (Course Project: Reverse Engineering)

December 2023

- Analysed 6 obfuscated Python Scripts and produced a short report describing what each **Python** program is designed to do importing sys modules for system-specific parameters and functions.
- Revised the scripts to be more user-friendly and comprehensive with the use of **Python** programming language
- Identified process and methods used when reverse engineering the programs.
- Recognised techniques or tricks were used by the program to make reverse engineering more difficult.

Global Hunger Analysis (SQL Course Project)

November 2023

- Analysed the database "Global Hunger" from Kaggle by inserting csv file in **SQL** and creating tables with the use of primary and foreign keys to form connections visible on the diagram.
- Created **inner join** combining 3 different tables and **stored functions** summarising the items and the countries produced a low, good or excellent amount of food in a specific year of research.
- Manipulated the database by working on **subqueries, stored procedures, views** and **queries with group by** area and item, calculating the average, maximum and minimum amount produced while gaining insights on food production worldwide.

Sales & Expenditure Analysis (Course Project: Spreadsheet Analysis)

October 2023

- Imported csv file and read the data of the database with the use of **Python**
- Collected the monthly sales into a single list and output the total sales across all months by creating functions
- Calculating monthly changes as a percentage, average, months with the highest and lowest sales
- Developed two visualisations using **Seaborn** and **Matplotlib**, displaying both monthly expenditure and sales of the company to gain insights on company's performance demonstrating the months with most and least sales and the expenditure patterns of the company

WORK EXPERIENCE

Ashton House Preparatory School EYFS Teacher & DSL	London, UK September 2022 - Present
Park Lane Primary School Class Teacher	London, UK September 2020 – August 2022.
Little People Montessori Nurseries Montessori Class Teacher/ Deputy Manager	London, UK July 2018 – August 2020
The Lloyd Williamson Schools Class Teacher	London, UK June 2017 – July 2018

COURSES

“Intro to Web Dev” HTML & CSS Basics, Bootstrap, JavaScript, UI-UX	Now
“Intro to Cloud & Deployment” Introduction to Cloud Computing, Cloud Deployment Models & Services, Intro to AWS, AWS Services	March 2024
“Agile & Scrum” Introduction to Agile & Scrum, Sprints, Teams and Ceremonies, Jira, Scrum in real life	February 2024
“Machine Learning” Introduction to Machine Learning, Types of Machine Learning, K Nearest Neighbour, Linear Regression	November 2023
“Solving Problems with Python” Python Programming Language, Problem Solving with Python (Loops, Functions), Decision Making (Boolean & Conditional Statements), Reverse Engineering & Debugging	November 2023
“Data & SQL” Introduction to SQL Programming, SQL Coding – Database Management Technique, Data Analysis, Data Analysis for Complex Structures, Data Manipulation & Management, Database design & data visualisation	July 2023
“Python & Apps” Python Basics – Data types & variables, Problem Solving, Decision Making (Logic & if statements), Lists & Dictionaries, Files, Pip and APIs	May 2023

EDUCATION

Q.T.S issued by the UK National College for Teaching and Leadership Teacher Ref. Number: 1746489	July 2017
MSc (Hons) / Natural Sciences, Mathematics and ICT in Education Grade 1st, First Class, University of Patras (Greece)	June 2017
BA (Hons) / Early Childhood Studies Grade 2:1, Upper Second Class, University of Patras (Greece); approved by UK Naric as equivalent to a British BA Hons Degree.	July 2015

INTERESTS

Coding, Chess, Tennis