

SOFTWARE ENGINEERING STUDENT

WEB APPLICATIONS | MACHINE LEARNING | ANALYTICAL THINKING

ACADEMIC PROJECTS

Feed Scarborough - Scarborough Food Network (Hackathon - 2nd place)

- Analyzed the hackathon organizer's requirements and elaborated a development plan, enabling the completion of the project within 12 hours.
- Coordinated with a 6-member team to distribute tasks efficiently, utilizing GitHub as a version control tool, contributing to the project's harmonious execution.
- Assisted in designing subsystems and developing the front-end using React, leading to the successful creation of the web application.
- Designed future back-end functionalities to be implemented using MongoDB for database management and Node.js for server-side development, achieving all objectives set by the organizers.
- Participated in presenting the project to representatives of the Scarborough Food Network, which resulted in our team being recognized as one of the most proficient.

Professional Portfolio - <https://mattiaportfolio.onrender.com/>

- Created a personal portfolio website using EJS (Embedded JavaScript) as the templating engine, showcasing web development skills.
- Designed a user-friendly interface showcasing academic projects, services, and contact information, resulting in increased visibility and professional branding.
- Utilized cloud deployment to make the portfolio accessible online, enabling accessibility.

Titanic Survivor Predictor – Logistic Machine Learning Model

- Preprocessed and cleaned the dataset, handling missing values and ensuring high-quality data for model training significantly enhanced the accuracy of outcomes.
- Employed the Logistic Regression algorithm using Python and the scikit-learn library to create a predictive model, achieving a high level of accuracy at 78%.
- Wrote an analysis report of the model's performance analyzed using scikit-learn metrics: confusion_matrix, accuracy_score, classification_report.

Airline Company Database

- Designed and implemented a relational database using Oracle SQL Developer, resulting in a highly efficient data management system.
- Simulated an airline company with tables for customers, flights, tickets, luggage, airports, airplanes, and onboard meals, optimizing data retrieval and analysis.
- Implemented complex queries and stored procedures, improving data retrieval and reporting efficiency.

EDUCATION

Software Engineering Technology - Artificial Intelligence (Co-op) Advanced Diploma
Centennial College, Toronto, ON

Jan. 2023 - Present
GPA: 4.3/4.5 (A)

Relevant courses:

Introduction to AI	Java Programming	Software System Design
Linear Algebra & Statistics	Database Concepts	Web App Development
Client-Side Development	Web Interface Design	Unix/Linux OS

MATTIA CARGANICO

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TECHNICAL SKILLS

Programming:	Python, Java, C++, C#, JavaScript, TypeScript
Frameworks:	Node.js, Bootstrap, Express.js, React
Database:	Oracle Database, SQL, MongoDB
Operating Systems:	Unix/Linux, Windows
Tools:	Trello, GitHub, Azure, Visual Studio Code, Visio, Visual Paradigm, MS Project, Excel

PROFESSIONAL DEVELOPMENT

Machine Learning with Python: Logistic Regression - LinkedIn Learning	Oct. 2023
Intro to Machine Learning - Kaggle	Oct. 2023
Data Science Foundations Fundamentals - LinkedIn Learning	Sept. 2023
Data Visualization for Data Analysis & Analytics - LinkedIn Learning	Sept. 2023
C# (Basic) - HackerRank	Aug. 2023
SQL (Basic) - HackerRank	Aug. 2023
Agile Development Practices - LinkedIn Learning	Feb. 2023