DEAN CONNELL

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ACHIEVEMENTS

- Chairperson of Student Council.
- Tutor at Maynooth Computer Science Centre.
- Public Relations Officer of Maynooth University Computer Science Society.
- 1st Place in MU Programmorama (December 2020).
- 2nd in Ballinasloe Entrepreneurial Skills Tournament.

TECHNICAL SKILLS

- Environments: Windows. Linux.
- Languages: Java, Python, R, MATLAB, Haskell, Scheme, SQL.
- Tools: IntelliJ, PyCharm, Sublime Text, Visual Studio, RStudio.
- Technologies: Gradle, LyX, RMarkdown.
- Microsoft Office: Word, Excel, PowerPoint.
- Web Design: HTML and CSS.
- Other: Machine Learning, Algorithms, Data Structures, Data Analysis and Visualisation.

References available on request

PROFILE

Methodical and analytical final year student in Maynooth University with 3 years of experience with Java and Python. Enthusiastic about grasping new concepts and mastering them. Proficient with OOP languages, algorithms, data structures and machine learning. Enjoys collaboration and contribution to projects which aid in the creation of useful, client-focused tools.

EDUCATION

BSC COMPUTATIONAL THINKING

Maynooth University — *September 2018 – Present*

Currently in final year of the 3-year accelerated degree, which consists of modules in Computer Science, Pure Mathematics, Statistics, and Philosophy. Predicted to graduate with a 1.1.

Second year overall grade (1.1): 75.8% - Module list available upon request.

LEAVING CERTIFICATE

Holy Rosary College, Mountbellew — *June 2018*

Studied 8 subjects at higher level and obtained 577 points in total. Achieved 90%+ (H1) in Irish and Biology, and over 80% (H2) in English, Mathematics, French, Chemistry and Accounting.

PROJECTS

EEG DATA ANALYSIS OF STROKE PATIENTS

MATLAB, Python — *November 2020 – March 2021*

- Conducted research into stroke, EEG data analysis techniques and signal processing to identify the utility of EEG in stroke identification.
- Calculated Event Related Potentials (ERPs) for control and stroke groups using MATLAB and EEGLab.
- Implemented five machine learning classification algorithms on ERP data in Python and compared prediction accuracy.
- Identified best EEG classifier from studied set with an 85% accuracy level.

HOUSE PRICE PREDICTION ALGORITHM

Python — *December 2018*

- Predicted price of house provided with a limited dataset - location and sale date.
- Queried the selling price of 100 properties in dataset sold close to specified date using datetime objects.
- Implemented geohashing to obtain the selling price of 100 properties in dataset sold proximal to given area.
- Computed a weighted average formula to calculate predicted price.
- Median percentage difference between predicted and the actual price was calculated at 25%.