DEAN CONNELL

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ACHIEVEMENTS

- Chairperson of Student Council.
- Tutor at Maynooth Computer Science Centre (Algorithms and Data Structures).
- 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, Jupyter Notebooks.
- 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

Detail-oriented and inquisitive M.Sc. Data Analytics student in NUIG with three years of experience using Python and Java and one year of experience using R. Proficient with OOP languages, algorithms and data structures. Holds experience in statistical modelling, statistical inference and machine learning using both Python and R. Enjoys collaboration and driven to dissect and analyse datasets to produce intensive reports contextualising and visualising data.

EDUCATION

M.Sc. in Computer Science (Data Analytics)

National University of Ireland, Galway — *September 2021 – Present*

An advanced M.Sc. programme that provides in-depth knowledge and skills in the emerging growth area of Data Analytics and Data Science. Topic areas include advanced data-mining and machine learning, deep learning, information retrieval, natural language processing, data visualisation, web mining and linked-data analytics.

B.Sc. (Hons.) in Computational Thinking

Maynooth University — *September 2018 – June 2021*

An advanced 3-year accelerated degree, which consists of modules in Computer Science, Pure Mathematics, Statistics, and Philosophy. Specialised in modules in statistical modelling, statistical inference and machine learning. Ranked 2nd in degree.

Final overall grade (1.1): 77.2% - Module list available upon request.

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 83.93% 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%.