Hassan Ezzeddine

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Education

- **American University of Science and Technology** — Lebanon
  Master of Science in Computer and Communication Engineering — *Oct. 2017 – June. 2019*
- **American University of Science and Technology** — Lebanon
  Bachelor of Science in Computer and Communication Engineering — *Oct. 2012 – Feb. 2016*

Professional Development

- **Machine Learning A-Z: Hands-On Python and R In Data Science** — March. 2017
  Udemy MOOC platform
- **Deep Learning A-Z: Hands-On Artificial Neural Networks** — June. 2018
  Udemy MOOC platform

Experience

- **Proximie inc.** — Lebanon
  Software Engineer — *Aug 2016 - Present*
  - **Speech Recognition**: Working on a server side speech recognition solution
  - **EMR**: Implementing a standalone EMR (electronic medical record) system and integrating with epic apporchard
  - **Service integration**: Developing the back-end services for a medical Surgeries system that unifies expertise and Medicine student in one platform where surgeries are done using augmented reality
  - **Client and Server side scripts**: Production, modification, and maintenance of website and web application user interfaces
- **Data Aurora** — Lebanon
  Data Analyst — *July 2014 - Aug 2016*
  - **Data Analysis**: Interpret data, analyze results using statistical techniques
  - **Data Visualization**: Creating interactive data visualizations using Tableau and D3.js
  - **Machine learning**: Implementing machine learning models for classification
- **Mentis Nation-Internship** — Lebanon
  Data Analyst — *Jan 2013 - May 2013*
  - **Data Visualization**: Creating interactive data visualizations using Tableau and D3.js
  - **Data science tools**: Getting familiar with data science tools using hands on projects

Research and Projects

- **Neural Networks in Stocks**: Comparison and implementing of BPA (back propagation algorithm multi-layer perceptron) and a LSTM-RNN (long-short term memory recurrent neural network) in stock market. We described the theory behind back propagation algorithm and recurrent neural networks, to be able to construct a stable program that could learn from historical stock data, the future of given stocks
- **ECG signals analysis for Arrhythmia detection**: Applying Neural Networks on ECG Signals of some patients to check whether their heartbeats are normal or not to predict the existance of Arrhythmia cardiac condition
- **Home Credit Default Risk-kaggle**: Predicting how capable loan applicants of repaying a loan using ensemble machine learning methods for. And applied an intensive feature engineering best practices, on the given dataset

Technical Skills

- **Data science and Machine Learning**: Data Preprocessing, Regression,Classification,Clustering,Dimensionality Reduction(PCA, LDA, Kernel PCA),Model Selection Boosting(k-fold Cross Validation, Parameter Tuning, Grid Search, XGBoost)
- **Neural Networks**: Artificial ,Convolutional and Recurrent Neural Networks. Backpropagation algorithm
- **Coding skills**: Proficient in Python,C++,Javascript,PHP and Familiar with R
- **Open source libraries**: Pandas,Scikit Learn,Keras,matlplot,plotly