

# NASSER BASHKEEL



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github.com/bashkeel



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## QUALIFICATIONS

### Languages

- **Advanced:** R, Python, SQL, Tableau
- **Working Knowledge:** AWS, PySpark, TensorFlow

### Projects

#### Predicting House Prices

XGBoost ensemble algorithms modelling house prices in the Iowa real estate market (0.12 RMSE)

- Skills: Python, XGBoost Decision Trees, Ensemble Modelling, Imputation, Feature Engineering

#### NLP & Sentiment Analysis

Predicting polarity of user reviews through text mining algorithm of IMDB reviews (90% accuracy)

- Skills: Python, NLP, Information Retrieval, Sentiment Analysis, Text Mining, Logistic Regression

#### Titanic Survival Prediction

Multilayer perceptron neural network algorithm predicting binary classification (80% accuracy)

- Skills: Python, Deep Learning, Neural Networks, Feature Engineering, Imputation, Classification

**Exploratory Data Analysis (EDA) & Data Visualization:** • [USADA Testing](#) • [MMA Analytics](#)

### Non-Technical

- Presented bioinformatics toolboxes and statistical and computational methods to non-technical users at biannual seminars, through poster presentations, and face-to-face conversations
- Mentored undergraduate researchers on topics such as collaboration with other researchers, flexibility regarding shifting experimental goals, and maintenance a healthy work-life balance

## EDUCATION

University of Ottawa  
Sept 2015 – Dec 2018

### MASTER OF SCIENCE BIOCHEMISTRY: SPECIALIZATION IN BIOINFORMATICS

- Research article under publication review in *BMC Genomics* – [Manuscript preprint available](#)
- Developed novel algorithm to define gene expression variability across human populations
- Parsed microarray repositories and public databases for large-scale genomic expression profiles
- **Highlighted Coursework:** Categorical Data Analysis, Computational Cell Biology, Bioinformatics

University of Ottawa  
May 2011 – May 2015

### BACHELOR OF SCIENCE BIOCHEMISTRY: MINOR IN MANAGEMENT

- **Highlighted Coursework:** Entrepreneurial Mind: New Venture Creation, Intro to Biostatistics

## VOLUNTEERING

Let's Talk Science  
2015 – 2016

### COMMUNITY OUTREACH VOLUNTEER

- Conducted hands-on scientific workshops in school classrooms and community engagements
- Taught children about invertebrate physiology at Carleton University's Biology Butterfly Show

Queensway-Carleton  
Hospital  
2012 – 2013

### EMERGENCY PATIENT SUPPORT VOLUNTEER

- Acted as first contact and liaison between the nursing staff and patients in the Emergency ward
- Organized patient charts and stocked frequently used medical equipment to assist nursing staff

## PERSONAL INTERESTS

- Current Brazilian Jiu-Jitsu competitor | Former assistant Muay Thai coach – trained in a renowned camp in rural Thailand
- Dungeons & Dragons | Home cooking | Nutrition & health | BoJack Horseman | Travelling – most recently, Portugal