Nasser AlKhazraji

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PROFESSIONAL SUMMARY

Ambitious and motivated Bioinformatics masters' graduate with 5 years experience in Python, R, SQL, and TensorFlow. Published researcher with training in developing novel algorithms, with a focus on statistical inferences and modelling of variability and dispersion of large-scale biological datasets. Highly technical in all aspects of the data science pipeline, including data wrangling, AI/ML model development and model deployment.

SKILLS

Languages
Python
R
Tensorflow
SQL
HTML/CSS

ML/AI
Scikit-Learn
Keras

DevOps
Jupyter
Git
Docker
GCP

Visualization
Plotly
Pillow/PIL
PowerBI
Tableau

Data Wrangling
Pandas
Numpy
XML/JSON
BeautifulSoup
Requests

EXPERIENCE

UAE National Military Service | UAE ARMED FORCES
January 2020 – May 2021 (Expected)| Abu Dhabi, UAE

Data Scientist Intern | ABU DHABI AGRICULTURE AND FOOD SAFETY AUTHORITY
April 2020 – June 2020 | Abu Dhabi, UAE
- Created and maintained dashboards that track the distribution and sale of subsided food items across
- Identified customers who repeatedly exceeded limits of subsidized goods through fraudulent transactions
- Simulated animal disease outbreak models to advise decision-makers regarding vaccination strategies

PROJECTS

(*Click project titles to view full source code*)

SONIC STRATA | PYTHON, CSS, API, MODEL DEPLOYMENT, APP DEVELOPMENT
- Front-end web app visualizing and analyzing artists' musical audio features through Spotify's Web API
- Quantified and visualized an artist's signature sound across their discography using specific audio features

NEURAL STYLE TRANSFER | PYTHON, TENSORFLOW, COMPUTER VISION, CNN
- Implemented seminal work of Leon Gatys et al. using VGG19 image classification network architecture to extract deep image feature representations and merge the content and style of different images

PREDICTING HOUSE PRICES | PYTHON, REGRESSION, ENSEMBLE, IMPUTATION
- Predicted final sale price of homes in Ames, Iowa with a final RMSE of 0.1220 using an ensemble model
- Increased regression accuracy by 15% through secondary SVM regressor to impute missing feature values

PET ADOPTION TIME | PYTHON, KERAS, GOOGLE VISION, GOOGLE NLP, CNN, TF-IDF
- Predicted the speed and adoptability of stray animals in shelters with a Cohen's kappa score of 0.439
- Integrated image feature extraction, image metadata, entity sentiment, text mining, and tabular data

TRAINING COURSES

AI/ML Courses

Complete Guide to Tensorflow for Deep Learning with Python

Andrew NG - Machine Learning

Python for Data Science and Machine Learning Bootcamp

Data Science & Machine Learning with R

General Data Science Courses

The Complete SQL Bootcamp

Statistics with R - Advanced Level

Web Scraping: Doing 20 Real Web Scraping Projects

The Web Developer Bootcamp 2021 (In Progress)

EDUCATION

UNIVERSITY OF OTTAWA | Sept 2015 – Dec 2019
MASTER'S OF SCIENCE SPECIALIZATION IN BIOINFORMATICS (GPA: 3.70)
Publication – Bashkeel, N., Perkins, T., Kærn, M., Lee, J. "Human Gene Expression Variability and its Dependence on Methylation and Aging" – BMC Genomics (2019)
• Highlighted Coursework – Categorical Data Analysis, Computational Cell Biology, Bioinformatics
• UAE Ministry of Higher Education and Scientific Research, Graduate Research Scholarship

UNIVERSITY OF OTTAWA | May 2011 – May 2015
BACHELOR OF SCIENCE BIOCHEMISTRY; MINOR IN MANAGEMENT
• Highlighted Coursework – Entrepreneurial Mind: New Venture Creation, Biostatistics
• UAE Ministry of Higher Education and Scientific Research, Undergraduate Research Scholarship

VOLUNTEERING

Community Outreach Volunteer | LET'S TALK SCIENCE
September 2015 – May 2016 | Ottawa, Canada
• Conducted hands-on scientific workshops in school classrooms and community engagement events
• Taught children about invertebrate physiology at Carleton's University's Biology Butterfly Show

Emergency Patient Support Volunteer | QUEENSWAY-CARLETON HOSPITAL
March 2012 – June 2013 | Ottawa, Canada
• Acted as first touchpoint and liaison between the nursing staff and patients in the Emergency ward
• Organized patient charts and stocked frequently used items to lighten hospital staff workloads

Program Assistant Volunteer | CENTER FOR STUDENTS WITH DISABILITIES
October 2011 – March 2012 | Ottawa, Canada
• Organized and promoted various social events via face-to-face marketing and email campaigns
• Shadowed counsellors during mentorship sessions concerning academic and social well-being

INTERESTS

I am an active Brazilian Jiu-Jitsu competitor, former assistant Muay Thai coach (trained at a renowned camp in Thailand, avid Dungeons & Dragons player, and passionate about health, nutrition, and cooking.

PERSONAL DETAILS

NATIONALITY	United Arab Emirates
DATE OF BIRTH	April 10th, 1992
MARITAL STATUS	Single
DEPENDENTS	None
LANGUAGES	English (Fluent)
	Arabic (Fluent)