

Mohammad Durrani

Data Scientist - New York City Data Science Academy

Elmhurst, NY - Email me on Indeed: [indeed.com/r/Mohammad-Durrani/2d45230b4d1de270](https://www.indeed.com/r/Mohammad-Durrani/2d45230b4d1de270)

Highly motivated and insightful data scientist with a master's degree in biomedical engineering, and a research background in biotechnology. Passionate in using predictive analytics for business improvement.

WORK EXPERIENCE

Data Scientist

New York City Data Science Academy - February 2017 to Present

Developed and deployed an interactive shiny application to aid homebuyers and investors in visualizing nationwide real estate

trends. Link to app: https://haseebaccount.shinyapps.io/MHD_Proj1_Shiny/ | <http://blog.nycdatascience.com/student-works/zillow/>

- Successfully scraped data from fiverr.com to analyze trends in the global freelancing market, as a decision-making tool for individuals and businesses looking to outsource. Link: <http://blog.nycdatascience.com/student-works/scraping-fiverr/>

- Applied machine learning models to predict price fluctuations in Russian real estate for the Sberbank Russian Housing Market

Kaggle competition. Link: <http://blog.nycdatascience.com/student-works/data-scientists-guide-predicting-housing-prices-russia/>

- Delivered an in-depth cluster analysis of Twitter data with a focus on human interactions as a valuable resource for data science

and business growth. Link: <https://blog.nycdatascience.com/student-works/cluster-analysis-twitter/>

Staff Associate

Columbia University Medical Center, Center for Radiological Research - January 2013 to May 2017

- Generated radiation dose-response data to be used in the development of a regression model to predict radiation dosage in exposed individuals.

- Collaborated with partnering biotech institutions to develop a diagnostic kit for field testing individual data in the event of a large-scale radiological event.

- Optimized the data flow pipeline with python scripts for high-throughput barcode labeling of sample slides for imaging and analysis

- Presented analysis of experiment data to management at weekly teleconferences, and monthly meetings.

Research Assistant

New York Blood Center - October 2010 to January 2013

- Analyzed data to be used for screening potential antibodies to be used in the development of a malaria vaccine.

- As a side project, studied the efficacy of a potential compound to be used to inactivate any parasites present in donor blood before transfusion.

- Worked on a project analyzing the presence of Babesia parasite in human red blood cells.

EDUCATION

Master of Science in Biomedical Engineering

NYU Tandon School of Engineering
2010

Bachelor of Science in Biology/Chemistr

Saint John's University
2007

SKILLS

Boosting (Less than 1 year), Clustering (Less than 1 year), Excel (Less than 1 year), Git (Less than 1 year),
Hadoop (Less than 1 year)

LINKS

http://blog.nycdatascience.com/author/haseeb_dhotmail

<http://github.com/haseebd>

<http://linkedin.com/in/haseeb-durrani>

ADDITIONAL INFORMATION

SKILLS

- Python (Pandas, NumPy, SciPy, • Principal Component Analysis • Version Control (Git, Github)
- Matplotlib, Scikit-Learn, Statsmodels,
- Clustering (K-means, Hier archical) • Natural Language Processing
- NLTK, Gensim) • Topic M odeling (Latent Dirichlet
- R (dplyr, tidyr, ggplot2, Plotly, Shiny, • Linear/Logistic Regression
- Allocation, Non-negative Matrix
- Leaflet, glmnet, randomForest, car et) • Linear/Quadr atic Discriminant Analysis
- MySQL, sqlite3 Factorization)
- Matlab • Ridge and Lasso Regularization • W eb Scraping (Scrapy, Selenium,
- Jupyter Notebook • Random For est/Gradient Boosting BeautifulSoup)
- RStudio • Hadoop
- Support Vector Machines
- Excel, W ord, Power point • Hive
- Time Series Analysis
- Spark