

Ali Turfah

Dearborn Heights, MI 48127, USA

☎ (313) 618-5870

✉ aturfah@gmail.com

📄 aturfah.github.io

Education

- Sept. 2014 to April 2018 **BSE in Data Science**, *University of Michigan*, Ann Arbor, MI, USA.
- Minor in Mathematics
 - GPA: 3.31 *Cum Laude*
 - Awards/Honors:
 - Dean's Honor List - Fall 2017, Winter 2018
 - University Honors - Fall 2017, Winter 2018

Experience

- June 2018 to Present **Machine Learning Engineer**, *Algo.ai*, Troy, MI, USA.
- Implemented neural networks to incorporate into and improve forecasting models
 - Verified and built processes to ensure client data integrity
 - Developed dashboards to enhance customer work-flow and data visibility
- May 2018 to Present **Independent Research**.
- Research project with Dr. Yves Atchade to develop a multinomial Bayesian classifier for cancer types using reverse phase protein array (RPPA) data.
- Researched literature on similar models and analysis of RPPA data
 - Derived and implemented Markov Chain Monte Carlo sampler for classification
- Sept. 2017 to April 2018 **Research Assistant**, *Center for Molecular Imaging*, Ann Arbor, MI, USA.
- Student position to support Dr. Craig Galban and his team in medical imaging data analysis.
- Designed and deployed application to enable scalable organization and cataloging of incoming data sets
 - Built tool to integrate various image processing scripts into single view
 - Automated pre-processing of incorrectly formatted images
- May 2017 to August 2017 **Machine Learning Engineering Intern**, *Algo.ai*, Troy, MI, USA.
- Integrated statistical learning methods into RESTful API
 - Built API endpoints to share customer data in web, email and powerpoint formats
 - Designed and developed unit testing system to automate system testing
 - Developed web scraper to augment information available from customer data
- Jan. 2017 to Dec. 2017 **Student Researcher**, *ProQuest*, Ann Arbor, MI, USA.
- Student-run research project to improve the pharmaceutical literature review process using machine learning.
- Researched and selected appropriate machine learning algorithms
 - Designed data normalization process to simplify training and implementation
 - Implemented final algorithm to perform document classification
 - Organized meetings with and presented to company sponsors to track progress

Extra-Curricular Activities

- Oct. 2015 to **President**, *Michigan Biological Software Team*.
April 2018
 - o Gold Medalist at International Genetically Engineered Machine (iGEM) Competition 2016, 2017
 - o Best Software Award at iGEM Competition 2016

Jan. 2016 to **Workshop Leader**, *Canton Public Library*, Canton, MI, USA.
March 2016
 - o Organized and delivered superhero themed chemistry workshop to library patrons

Jan. 2015 to **Webmaster**, *Michigan Biological Software Team*.
August 2015
 - o Bronze Medalist at iGEM Competition 2015

Community Service

- 2012 to **Mathematics Tutor**, Dearborn, MI, USA.
Present Free tutoring for college math courses and math sections of GRE and PCAT exams
2006 to **Volunteer**, *Zamaan International*, Dearborn, MI, USA.
Present
 - o Packaged and delivered food to clients
 - o Organized fund raising efforts with local supermarkets

June 2013 **Volunteer**, *Beaumont (Previously Oakwood Hospital)*, Dearborn, MI, USA.
Clerical work and support in pathology department.
Sept. 2011 to **Tutor**, *WISE Academy*, Dearborn, MI, USA.
May 2013 After-school volunteer tutor for students K–12th grade.

Languages

- **English**: Native Language
- **Arabic**: Fluent
- **French**: Full working proficiency