Md Yousuf Ali

Amarillo, Texas

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SUMMARY

Pharmaceutical Scientist by training with a strong aptitude for learning new skills to solve the problem in the biomedical/life science field. Bringing exceptional Research, Programming, Statistical Analysis, Bioinformatics, Machine Learning, and Deep Learning skills.

SKILLS

- Python, R**,** SQL, SAS, Tableau, AWS, Google Cloud, Git/GitHub, Docker, Linux/Unix
- Bioinformatics - Bioconductor, HISAT, FastQC, SAMtools, StringTie, MACS
- Molecular Biology - Cell Culture, Western Blot, ELISA, Gene Knockdown, RNA Extraction
- Software - GraphPad Prism, ImageJ, SPSS, ChemDraw, Endnote, Microsoft office, Powerpoint

PROJECTS

Finding Donors for CharityML – Machine Learning [SVM, Gradient Boosting, Scikit-learn]
- Implemented supervised algorithms to identify people most likely to donate with accuracy 0.87

Sentiment Analysis Web App Deep Learning [RNN, PyTorch, AWS, SageMaker]
- Trained recurrent neural network and deployed a model using amazon sagemaker. The model was used to predict the sentiment of the entered movie review

Communicate Data Finding – Data Analysis [Matplotlib, Seaborn, Pandas, Numpy]
- Created more than 60 plots in univariate, bivariate, and multivariate category for exploratory data analysis (EDA)

Startups using AI for drug discovery - Towards Data Science [Web scraping, Blog]
- Gathered the data and created a map of startups using Artificial Intelligence(AI) for drug discovery

Setup Bioconductor and learn Bioinformatics - posted on YouTube [Docker, R, Bioinformatics]
- Showed how to setup Bioconductor with docker for learning bioinformatics

EDUCATION

	GPA	
Ph.D. in Pharmaceutical Sciences Texas Tech University Health Sciences Center, Amarillo, TX	3.97	Expected in 01/2020
Masters in Pharmaceutical Chemistry University of Dhaka, Dhaka, Bangladesh	3.69	2010
Bachelor of Pharmacy University of Dhaka, Dhaka, Bangladesh	3.85	2008

ONLINE CERTIFICATIONS

Bioconductor for Genomic Data Science - Coursera	06/2019 – 08/2019
Deep Learning Nanodegree - Udacity	03/2019 - 06/2019
Data Scientist Nanodegree - Udacity	11/2018 - 03/2019
Data Analyst Nanodegree - Udacity	09/2018 - 12/2018
Statistics with R Specialization (four courses) - Duke University - Coursera	03/2018 - 10/2018
Inferential Statistics - University of Amsterdam - Coursera	10/2017 - 01/2018

PROFESSIONAL EXPERIENCE

Research Assistant
Advisor: Dr. Margaret Weis
Department of Pharmaceutical Sciences
Texas Tech University Health Sciences Center, Amarillo, TX

- Designed and conducted a project that showed cytokine-stimulated iNOS expression requires long chain fatty acyl-CoA synthetase (ACSL) in brain ischemic model. Click Abstract link or browse *https://bit.ly/34SmNU7* for details
- Designed and conducted a project that showed HNF-4α does not play any role in iNOS expression in bEnd.3 and C6 astrocytoma cells
- Trained a summer intern in basic molecular biology techniques

01/2015 - 01/2020

Teaching Assistant

- Anatomy and physiology virtual lab - Assisted a group of 15 PharmD students to understand the anatomy of the human through a real and a virtual skeleton
- Anatomy and physiology Proctoring – Helped the faculty to conduct the exam of 150 students
- Case studies – Guided a group of 7 PharmD students to implement theoretical knowledge into practical scenario
- Clinical correlation - Currently helping a group of 24 students solving clinical correlation problem as a team

Product Development Officer
ACI Limited (Pharmaceuticals)
Narayangonj, Dhaka, Bangladesh

- Performed physical and chemical test relevant to product development, analytical method development, and validation
- Performed physical and chemical tests requires for stability analysis such as accelerated stability, real-time or ongoing study of new products
- Ensured compliance of GLP at all stages of testing of products under the product development program.

12/2013 - 07/2014

Quality Assurance Officer

Renata Limited, Dhaka, Bangladesh.   07/2013
- Actively participated with the expert during Installation Qualification (IQ) and   -
  Operational Qualification (OQ) of different pharmaceutical machines like Rapid   10/2013
  Mixing Granulator and Capsule Filling Machine.

PUBLICATIONS

- Syeda Sadia Ameen, S.R.J., **Md. Yousuf Ali.** Evaluation of The Anti-Inflammatory and Antipyretic Activities of The Plant Alpinia Nigra (Family: Zingiberaceae). World Journal of Pharmaceutical Research 3, 164-170 (2014).
- **Md. Yousuf Ali**, U.K.M. Antioxidant, Antimicrobial and Toxicological Investigation of Propolis: Pharmacological evaluation of Propolis collected from Sudarbans. LAMBERT Academic Publishing, 2012.

CONFERENCE PRESENTATIONS

- **Yousuf Ali**, Margaret Teresa Weis. "Inhibition of Long Chain Fatty Acyl CoA Synthetase Modulates Inducible Nitric Oxide Synthase Expression". Society for Neuroscience, Chicago, IL.   10/2019
- **Yousuf Ali**, Margaret Teresa Weis. "Cytokine-stimulated iNOS Expression Requires Long Chain Fatty Acyl CoA Synthetase (ACSL)". Experimental Biology, Orlando, FL   04/2019

AWARDS AND HONORS

- GSBS President's Travel Scholarship for Society for Neuroscience conference   2019
- TTUHSC- AAPS Student Chapter travel award for American Association of Pharmaceutical Scientists (AAPS PharmSci 360) conference   2019
- Cayman Chemical Travel Grant   2019
- American Association of Bangladeshi Pharmaceutical Scientists (AABPS) travel award   2019
- Travel Grant from "Bangladesh-Sweden Trust Fund" for higher studies in abroad   2015

GRADUATE COURSES

- Biochemistry
- Immunology
- Pharmacology
- Principle of Drug Action
- Advanced Neuroscience
- Cerebrovascular Biology
- Biomedical Informatics
- Intermediate Biostatistics
- Pharmacokinetics
- Drug Delivery System
- Regulatory Affairs
- Principle of Disease

PROFESSIONAL ASSOCIATIONS

- American Association of Pharmaceutical Scientists (AAPS)
- American Society for Biochemistry and Molecular Biology(ASBMB)
- Society for Neuroscience (SFN)
- American Association of Bangladeshi Pharmaceutical Scientists (AABPS)