# Amira Esmaeil

Location: Harrisburg, PA
Authorization: US Citizen

## CURRICULUM VITAE

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## 2 Education
1. Postgraduate Program (2022), AI & ML, University of Texas at Austin.
2. B.S. in Medical Laboratory Science (2020), University of Mississippi Medical Center.
3. B.S. in Zoology and Chemistry, Ain Shams University.

## 3 Employment History
1. Medical Lab Scientist, Hershey Medical Center, 2019 – .
2. Medical Lab Scientist, Nour Medical Center, 2009 - 2014.

## 4 Skills
- **Programming:** Python
- **Reporting & Visualization:** Matplotlib, Seaborn
- **DS & AIML:** (Un)Supervised machine learning, Feature Engineering, Ensemble Techniques, Model Tuning, Inferential Statistics, Hypothesis testing, Deep Learning, Computer Vision, NLP, Recommendation System, AWS, Azure, Cloud Platform, SQL, A/B Testing.

## 5 Healthcare Experience

1. I have a healthcare experience from working in medical laboratories reaches more than 3,000 hours.
2. I have a 100 hours Physician Assistant Shadowing.

## 6 Board of Certification

ASCP Board of Certification - American Society for Clinical Pathology (2019).

## 5  Data Science Education Projects

1. **Neural Networks:** Built a neural network-based classifier that can determine whether they will leave or not in the next 6 months.
2. **Computer Vision:** The goal of the project is to create a classifier capable of determining a plant's species from images of plant seedlings at various stages of growth.
3. **NLP:** A sentiment analysis for Twitter data about major U.S. airlines to classify positive, negative, and neutral tweets, followed by categorizing negative reasons.
4. **Recommendation System:** Built a recommendation system to recommend products to customers based on their previous ratings for other products.
5. Built advance ML model and designed a statist many tests to examine converting bank liability customers to personal loan customers.
6. Built a model for a campaign for a new product in a Tourism Company to expand the customer base.

7. A Bank saw a steep decline in the number of credit card users. Built smart churn model to predict probability of churn.
8. Bank personalized campaigns, classification project.
9. Built sophisticated pricing model (93% R2-value) for automobile to predict car prices.
10. Built a clustering model to identify different segments in the existing bank customer and provided recommendations on how to better market to and service these customers.

## Awards and Prizes

1. University Physicians: Department of Pathology Award, 2019.
2. The outstanding Immunohematology Medical Laboratory Science Student Award, 2019.
3. University Pathology Associates Award, 2019.
4. Outstanding Immunohematology Award, 2019.
5. Dean's List Award, 2019.
6. Regions Bank Medical Laboratory Science Scholastic Award, 2019.
7. Mississippi Blood Services Medical Laboratory Science Outstanding Clinical Achievement Award

## Grants and Scholarships

1. Lois B. Jones & David R. Pace Memorial Scholarship from the American Society for Clinical Laboratory Science Mississippi (2018 & 2019).
2. Federal Pell Grant (2016-2019).
3. Adult Scholarship from Northwestern Mississippi Community College (2016-2017).

## Merits

1. I have been nominated by my school of Health Related Professions as a candidate for a peer tutor position in University Tutoring Services of the University of Mississippi Medical Center.
2. I have been selected by the University of Mississippi Medical Center, School of Health Related Professions, to be on the Dean's List from Fall 2017 through Spring 2019.
3. I have been selected by the Northwest Mississippi Community College to be a representative of the community in 2016.
4. Northwest Mississippi Community College has recognized me for earning a spot on the President's list during fall 2016 as a recognition for my achievements.

## Membership

1. Phi Kappa Phi Honor Society, the University of Mississippi Medical Center, 2018.
2. Alpha Eta Honor Society, the University of Mississippi Medical Center, 2018.
3. Phi Theta Kappa Honor Society, Northwestern Mississippi Community College, 2016.
4. The American Society for Clinical Laboratory Science (ASCLS), 2017.
5. The American Society for Clinical Pathology membership (ASCP), 2018.

## Conferences/Workshops/Activities

1. MS/LA ASCLS Joint Annual Meeting, April 10-13, 2018
2. 23rd Annual SHRP Research Day, April 26th, 2018.
3. Program Awareness Day, MLS at the University of Mississippi Medical Center, School of Health Related Professions (2018)