

SHAFIN MOHAMMED

DATA SCIENCE & MACHINE LEARNING

CONTACT

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- 📁 Portfolio

PROFILE

Passionate about implementing AI solution used to streamline and automate products / processes which are critical to organization's business models

EDUCATION

2017 - GEORGE MASON UNIVERSITY, VA
MS in Telecommunications

2012 - GEORGE MASON UNIVERSITY, VA
BS in Electrical Engineering

COURSES / CERTIFICATIONS

- Machine Learning by Stanford University - Coursera
- Advanced SQL + MySQL for Analytics & Business - Udemy
- PyTorch for Deep Learning with Python Bootcamp – Udemy
- Spark and Python for Big Data with PySpark – Udemy

TECHNICAL SKILLS

- Python: Pandas, Scikit-Learn, Statsmodel, NLTK, Keras, PyTorch, PySpark
- SQL: MySQL, PostgreSQL
- Data Pre-Processing & Analysis
- Machine Learning
- Statistics
- Data Visualization: Tableau, Plotly
- Spark, Hadoop, AWS, Databricks

DATA SCIENCE PROJECTS

- Loan Risk Prediction with AI:** Developed a model that predicts if a loan will default to help lending businesses make better decisions for approving loans. The model was built using [TensorFlow](#), [Keras](#) and trained with a 90MB Lending Club dataset. Model predicted loan outcome with 0.94 precision and 0.93 recall. [See Code in Github](#)
- Maven's Business Story:** Annual business performance for Maven Fuzzy Factory, an eCommerce website. Highlighted business [KPIs](#) (profit margin from different advertising channels, conversion rates, click-through-rates etc.) and A/B testing results. Data queried using [MySQL](#) and visualized with [Tableau](#). Suggested business actions based on data trends. [See SQL Code](#), [See Tableau Story](#)

EXPERIENCE

March 2019 – February 2020

Application Engineer | IDARE LLC

Part of a startup team with a vision to develop a SaaS for the Oil/Gas industry that automates subsea pipeline designs to significantly reduce project completion time.

- Converted pipeline design calculations in Mathcad to [Python](#) scripts using [Pandas](#), [Scikit-learn](#), [Plotly](#). Implemented the scripts as analytics API in application's backend to automate design process
- Reduced design phase of a 100km pipeline from about 2 weeks to just a few seconds

January 2018 – February 2019

Software Developer | UDPlatforms

As part of an IT consulting team, engaged in several projects to provide business and software solutions for clients. Featured project:

- [Uncovered business inefficiencies](#) for a client that provided person-to-person language interpreter and document translation service
- Used [SQL](#) and data visualization with MS Excel to highlight missed appointments due to interpreter shortages
- Helped the client staff more efficiently and [reduce](#) missed appointments by [40%](#) in the next quarter

April 2016 – November 2017

Radio Frequency Engineer | Mobilitie LLC

- Spearheaded Electromagnetic Emissions Analysis program as [Team Lead](#). Conveyed technical information about EME to non-technical teams
- Part of Sprint's Network Vision project as [Market Lead](#) for South Region

July 2012 – March 2016

Radio Frequency Engineer | Telnet-inc

- Wrote Electromagnetic Emissions Analysis report for AT&T & Sprint.