ABBAS SHAKIBA

Machine Learning Engineer

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EXPERIENCE

Senior Data Scientist

Verisk

📅 June 2018 – Present   📍 Remote

- **Hazard Detection**
  Part of team to implement a multi-class image classification using advanced deep learning and NLP algorithms to detect hazards related to personal properties.
- **Connected Home**
  Implemented a highly optimized script to engineer several big data sets with billions of records. Brought $200k value to company. Used Python, PySpark, and AWS Athena.
- **Text Analysis on Sales Calls**
  Designed and implemented an automated NLP application to read and analyze ISO sales calls summaries and create several BI dashboards for executives and sales managers. this application provides insights to the executives and can bring millions of dollars revenue stream in several lines of businesses. Python, AWS Services(EC2, S3, Redshift, Lambda), and Tableau are used.
- **iapack.py**
  Led an initiative to implement an internal python package for the Insurance Analytics teams at Verisk. The package optimizes the use of big data platforms like H2O and pySpark.
- **COVID-19 Impact on Traffic Patterns**
  Involved in a multi-teams project to assess the impact of COVID-19 on traffic patterns (Accidents, Violations, etc.) and consequently on the P&C industry. I implemented an end-to-end data engineering pipeline to prepare data for the product team. Python and AWS services (EC2, S3, Lambda) are used.

Sr. Application Developer

Nationwide

📅 May 2016 – May 2018   📍 Columbus, OH

- **Job Evaluation System**
  Automated the job evaluation process and created a web based recommendation system and a classifier using Node.js, Express.js, and sklearn package. Reduced hundreds of human hours for HR compensation department in the job evaluation process.

📅 Internship, Summer 2016   📍 Columbus, OH

- Fixed software defects of different in-house financial applications (Mutual Fund Service Fee Payment, Buys, Values, etc).

PUBLICATIONS

📄 Conference Proceedings

- Shakiba, Abbas, Robert Green, and Robert Dyer (2016). "FourD: do developers discuss design? revisited". In: *Proceedings of the 2nd International Workshop on Software Analytics*. ACM, pp. 43–46.
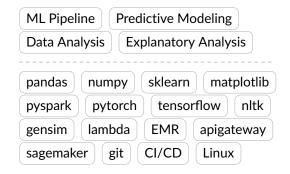
STRENGTHS

Python   Machine Learning
Deep Learning   MLOps   AWS
Restorative   Team Player
Motivator & Activator

SKILLS, PACKAGES & PLATFORMS

ML Pipeline   Predictive Modeling
Data Analysis   Explanatory Analysis

pandas   numpy   sklearn   matplotlib
pyspark   pytorch   tensorflow   nltk
gensim   lambda   EMR   apigateway
sagemaker   git   CI/CD   Linux

EDUCATION

Graduate Studies
University of Chicago, IL
📅 2019 – 2020

M.S. in Computer Science
Bowling Green State University, OH
📅 2014 – 2016

B.S. in Computer Engineering
Shiraz University, Iran
📅 2008 – 2013

EXTRACURRICULAR

🏅 **Online Programs**
Machine Learning Engineer
Machine Learning with Pytorch
Applied Data Science with Python

☁ **Cloud Studies**
AWS Machine Learning
AWS Solutions Architect