[Springboard] MLE Career Track - Mentor Skills Assessment

Thanks for applying to be a mentor with Springboard, it really is an amazing way to give back professionally and keep your own skills sharp! Before your interview we would love for you to fill out a quick skills assessment below.

The name and photo associated with your Google account will be recorded when you upload files and submit this form. Not ashkan.yousefi@gmail.com? Switch account

* Required

What is your name?

Ashkan Yousefi

Please rate your skill level for each unit on a scale of 1-5.

1= Novice (Little to no practical experience) 5 = Expert (One of your biggest strengths and you do this on a daily basis.)

| | 20011 | ning Engine | Ü | | | |
|---|---|---|--------------------------------|---------------------------------|--------------------------|--------|
| Data Softv | Python Data S Engineering t vare engineeri data structur | ools: Spark/P ing: Continuo | ySpark, Cont us integratior | ainers, Cloud n, Github, tes | Computing ting and debu | gging |
| | 1 | 2 | 3 | 4 | 5 | |
| Novice | 0 | 0 | 0 | • | 0 | Expert |
| | | | | | | |
| 2. Cle 3. W | rangling at llecting dat eaning and orking with ols such as | a: APIs, rea transformir large data | ng data for sets in SQI | Al systems L and NoS | s at scale QL databas | es |
| 1. Co 2. Cle 3. W | llecting dat eaning and orking with | a: APIs, rea transformir large data | ng data for sets in SQI | Al systems L and NoS | s at scale QL databas | es |

| Unit 3: Foundat | ions of Ma | chine Lear | rning * | | | | | | | |
|---|------------|------------|---------|---|---|--------|--|--|--|--|
| Supervised and unsupervised learning Linear and Logistic Regression, Decision Trees and Ensembles Scalable algorithms: XGBoost, Catboost Feature engineering and selection, model validation and interpretation Scaling ML models to large data sets Tools: scikit-learn, SparkML, Auto-ML systems | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | | | | | |
| Novice | 0 | 0 | 0 | • | 0 | Expert | | | | |
| Unit 4: A Deep Dive into Deep Learning * Overview of Neural Networks, Backpropagation and foundational techniques Principles of Deep Neural Networks Common Deep Neural Network configurations e.g. RNNs, CNNs, MLPs, LSTMs Generative Deep Learning and GANs Engineering Frameworks: Keras, TensorFlow, PyTorch | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | | | | | |
| Novice | 0 | 0 | • | 0 | 0 | Expert | | | | |

Unit 5: Natural Language Processing * 1. How to work with text and natural language data 2. NLP in Python, using common libraries such as NLTK and spaCy 3. Representing language: BOW, TF-IDF, word embedding models (word2vec, GloVe, FastText) 4. Deep Learning techniques for NLP 5. Chatbots and other modern NLP applications Novice Expert

Unit 6: Computer Vision *

- 1. Foundations of computer vision and/or image processing
- 2. Common challenges in vision e.g. object recognition
- 3. Deep Learning for images and/or video

3

5

1

Unit 7: Building and Deploying Large-Scale Al Systems *

- 1. Common tools and techniques to build large-scale Al applications
- 2. Containers (Docker/Kubernetes) and deploying ML applications
- 3. Real-time data processing using tools such as Kafka/Faust
- 4. Making your application available via an API or a web service
- 5. Application and data security

1 2 3 4 5

Tell us about a ML project you were involved in. *

Please explain your role in **designing** and **deploying** it.

I implemented AI for the educational app and also AI for the agriculture tech company and my role was data scientist to create a pipeline for data pre-processing, model selection, model performance comparison and putting the model into the production using the AWS Sagemaker.

Please upload a sample Python script

Sample ash.ipynb ×

Thanks for taking the time to fill out the skills assessment! See you on the call.

Submit

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