thamer saraei

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Applied Data Science Specialist

Issued by: Coursera

Issued on: 09 August 2019

This badge earner has demonstrated practical skills required to solve real-world data science challenges. The earner has developed core skills in Python and can apply these skills to create applications for data science. The learner has a good understanding of data visualization, and can use Python libraries such as Matplotlib and Seaborn to generate different types of data visualizations such as line plots, scatter plots, bubble plots, area plots, histograms, and bar charts.

Skills

Bokeh, Data Analysis, Data Science, Folium, Foursquare, Geospatial, Jupyter, Matplotlib, Notebook, Numpy, Pandas, Python, SCIPy, Scikit-learn, Seaborn

Criteria

• Complete all four courses in the "Applied Data Science Specialization" on Coursera and earn an IBM badge for each as follows:

• - Python for Applied Data Science

• - Data Visualization with Python

• - Data Analysis with Python

• - Applied Data Science Capstone

• Receive the specialization certificate from Coursera.

Applied Data Science Capstone

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The badge earner has demonstrated proficiency in applying Data Science and some Machine Learning concepts including identifying and clearly defining a problem that can be solved using location data, working with and making calls to APIs, and using location data to solve the problem defined. The individual has also demonstrated proficiency in documenting their work and preparing a full formal data science project report.

Skills

Clustering, Data Analysis, Data Science, Data Visualization, Foursquare, Location Data, Machine Learning, Pandas, Python

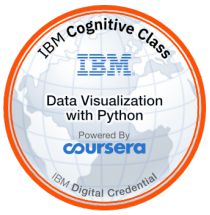
Criteria

• Complete the Coursera course "Applied Data Science Capstone Course" including all hands-on labs and assignments. This will include a demonstration of applying the

skills taught in this course and all the courses leading up to this course to solve a Data Science problem involving location data.

• Pass the Coursera course assessment criteria. This will include using the Foursquare API and applying different skills taught in the course to complete a peer-assessment on exploring and clustering neighborhoods in the city of Toronto.

• Prepare and submit a formal data science project report for evaluation.



Data Visualization with Python

Issued by: Coursera

Issued on: 08 August 2019

This badge earner has a good understanding of what data visualization is, uses of data visualization, and best practices when creating plots and visuals. The individual has the skills to use different Python Libraries, mainly Matplotlib and Seaborn to generate different types of visualization tools such as line plots, scatter plots, bubble plots, area plots, histograms, and bar charts. The earner is able to use the Folium library to visualize geospatial data and to create choropleth maps.

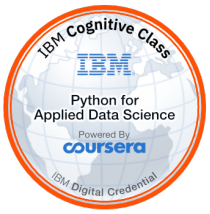
Skills

And The Jupyter Notebook, Folium, Matplotlib, Numpy, Python, Seaborn

Criteria

• Complete the Coursera course "Data Visualization with Python" including all hands-on labs and assignments.

• Pass the Coursera course assessment criteria.



Python for Applied Data Science

Issued by: Coursera

Issued on: 08 August 2019

This badge earner has the core skills in Python such as critical data structures, programming fundamentals and experience with core libraries for data science. They can apply this knowledge to work with data and develop applications for data science. The individual also has sufficient Python knowledge to work with Python libraries.

Skills

Bokeh, Matplotlib, Python

Criteria

• Complete the Coursera course "Python for Data Science" including all hands-on labs and assignments.

• Pass the Coursera course assessment criteria.

Machine Learning with Python

Issued by: Coursera

Issued on: 08 August 2019

The badge earner has demonstrated a good understanding and application of machine learning (ML) including when to use different ML techniques such as regression, classification, clustering and recommender systems. The individual has

acquired the skills to use different machine learning libraries in Python, mainly Scikit-learn and Scipy, to generate and apply different types of ML algorithms such as decision trees, logistic regression, k-means, KNN, DBSCCAN, SVM and hierarchical clustering.

Skills

Classification, Clustering, Data Science, ML, Machine Learning, Recommender Systems, Regression, SCIPy, Scikit-learn

Criteria

• Complete the Coursera course "Machine Learning with Python" including all hands-on labs and assignments involving using different machine learning libraries, making predictions, classification, clustering and evaluation, using Python based Jupyter notebooks.

• Pass several quizzes and the final course assignment to build different classifiers using a real-world data-set.