Jamilah FOUCHER

DATA SCIENTIST/MLOps
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Linked-In : jamilah-foucher (4 skill badges)
GitHub: https://github.com/j622amilah/.github, https://github.com/CodeSolutions2
ResearchGate: Jamilah-Foucher,
Publications: orcid.org

I am interested in algorithm development, model training and deployment (Microsoft Azure Data Scientist Associate 2023-2024, Front-End Development 2024)

EDUCATION

Front-end Development certificates (2023-2024)

- Scrimba: 9 certificates

Confirmed Data Scientist (2022-2023)

- TensorFlow: Data and Deployment Special DeepLearning.AI (DeepLearning.AI: 2W3KDW5FR52P),
- TensorFlow Developer Specialization (DeepLearning.AI: WMLDV9S6SMLB),
- Microsoft Azure Data Scientist Associate (DP-100)(Microsoft: QPGTXEUHE4WL),
- Microsoft Certified Azure Data Scientist Associate (Microsoft: D91A4E95CF34628B)

Confirmed Data Analysts (2023)

- Data Science with Databricks for Data Analysts Specialization (Databricks: 7XZH736R33RR)

Data Science certificates (2020-2023)

- Coursera: 72+ certificates (22 univ. credits),
- Cloud Services: Microsoft: Data Scientist (232/232), Google Cloud: ML Engineer Path (6/15), Google Analytics (Credely), AWS, IBM (Credely)
- Kaggle: 17/17 completed courses 2022, active participant
- HackerRank, W3Schools: Python, SQL, bash, Java, R, C++, C#, JavaScript

BAC+8 (PhD) in Mechanical Engineering numerical analysis program IGERT NSF (2005 – 2012): University of California, Santa Barbara (UCSB), USA

BAC+5 (MS) Mechanical Engineering / no degree (2003 – 2004): Transferred to UCSB - Syracuse University, USA

BAC+3 (BS) Electrical Engineering (1999 – 2003): State University of New York at Binghamton (SUNY), USA

PROFESSIONAL EXPERIENCE

Consumer-2-Consumer/Consumer-2-Business (C2C/C2B) programming code seller (06/2023-present) https://github.com/CodeSolutions2
CodeSolutions2, Lyon, France.

- UpWork consulting, Professional Blogs (medium.com/@j622amilah, https://dev.to/t/practicingdatscy)

Engineering Consultant CDI (09/2022 – 12/2022)
Capgemini, Lyon, France.

- Webscrapped data using Benchling API in python: Created a python OCR/document reader-like class that rearranged unstructured data.
- Continuous data classification in Java: Used reinforcement learning (Q-learning) with Weka to improve an EdgeSimCloud Java algorithm that measured network traffic

Postdoctoral researcher CDD (03/2016 – 03/2020)
Euromov; AIRBUS; ONERA; AIRBUS Helicopters, France

- Prediction of spatial disorientation (DS): Performed cohort analysis using NLP textual analysis. Created workflows to efficiently create experiences for a robotic motion simulator using virtual reality (VR). Classified perception of DS measuring hand movements, authored 3 scientific articles.

Postdoctoral researcher CDD (08/2012 – 06/2015)
Advanced Telecommunications Research Institute International (ATR), Japon

- Prediction of EEG artifacts [Matlab]: Collected human EEG and NIRS data in an everyday environment (BMI smart home). Classified behaviours and artifacts; authored 1 scientific article.
- Stress & comfort prediction [Matlab]: Classified stress/comfort during wheelchair driving using EEG and skin conductance measurements, authored 3 scientific articles. Japanese patent obtained, 2014-173497, 2014.

SKILLS

- Data Science Process: Ask Questions, Hypothesis, Experiment, Analyze (Marker Selection and Reduction, Model Selection (Python SDK: mobilenet, OpenAI, Hugging Face), Model Training, Pipeline), Interpret Results, Communicate and Deliver Results
- Machine and deep learning : ML methods using optimization algorithms and decision tree, DL methods using optimization algorithms, RNN, CNN, GANS, Transformer
- Types of data processed: Time series, text, image, sound, static and continuous/real-time data
- Control theory, systems identification, statistics, n4sid, ARX, created a predictive model of z-score

PROGRAMMING
JavaScript: (cdn), Node.js: (npm), HTML, CSS, Python: (numpy, scipy, scikit-learn, tensorflow, keras, pytorch, pandas, nltk, spacy, pyspark), SQL, Databricks, AWS/Azure/GCP/IBM cloud, MATLAB/Simulink, Excel, VBA, C++, C# (Unity), Labview, Java, R, Google Apps Scripts

VISUALISATION
Power BI, Tableau, Google/ Microsoft/ Libreoffice, plotly, matplotlib, seaborn, LaTeX

ADDITIONAL

- French permit B
- Language (Native English, French C1 DALF, Japanese level 5)