

Mohamed E. BRIKI

Machine Learning Engineer

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in [mebriki](#) |  [mebriki](#) |  [mebriki.github.io](#)

Algiers, Algeria



SUMMARY

Machine Learning Engineer with 2+ years of experience at deep-tech startups, building end-to-end ML pipelines and delivering data-driven solutions across diverse domains including healthcare and legal tech. Collaborating with cross-functional and multidisciplinary teams as well as stakeholders. Passionate about research, continuous learning, and leveraging technology to address societal challenges responsibly.


EXPERIENCE

- **ML Engineer & Data Project Lead** Jan 2025 – Present
Wessini Algiers, Algeria, Hybrid
 - Leading the development, optimization, and maintenance of a legal text extraction pipeline.
 - Managing and updating a high-quality legal text database powering "[Verdikt](#)"—a legal AI assistant.
- **Machine Learning Engineer**  Nov 2023 – Dec 2024
Wessini Algiers, Algeria, On-site
 - Designed and developed an efficient text extraction ETL pipeline incorporating text recognition, cleaning, sorting, pattern identification, and data structuring.
 - Implemented a custom sorting algorithm to accurately process multi-column text and preserve original document layouts.
 - Optimized the pipeline to handle both legacy, poorly scanned and native documents.
 - Processed thousands of legal documents with high accuracy, enabling the creation of a robust legal text database.
- **Machine Learning Engineer**  Feb 2023 – Aug 2023
Namla Orsay, France, Remote
 - Developed end-to-end machine learning solutions for networking, healthcare, and smart city applications.
 - Trained and fine-tuned ML models (XGBoost, VGG16, LSTM, Prophet) with TensorFlow, Keras, and scikit-learn.
 - Built deployable prototype ML applications using Flask and Streamlit.
 - Utilized Docker and Docker Compose and YAML templates for containerization and deployment.
 - Authored technical blogs on Edge Computing and AI, including "[Predictive Maintenance](#)" and "[Satellite Edge Computing \(SEC\)](#)".
- **Biomedical Engineer Intern**  Mar 2017 – Apr 2017
CHU Mustapha Algiers, Algeria, On-site
 - Developed a Patient Record Management System (PRMS) for the Cardiac Surgery department.
 - Inspected and documented operating room equipment and instruments.

EDUCATION

- **Master's Biomedical Informatics**  Sep 2017 – Nov 2020
University of Abou Bekr Belkaid Tlemcen Tlemcen, Algeria
 - Thesis: "Medical Images Classification Based on Deep Features Extraction Exploiting Transfer Learning" - Grade: 17.50/20 (Très Bien)
- **Bachelor's Biomedical Engineering**  Sep 2014 – Jun 2017
University of Abou Bekr Belkaid Tlemcen Tlemcen, Algeria
 - Final Project: "Patient Record Management System (PRMS) for Cardiac Surgery Department" - Grade: 15/20 (Bien)

PROJECTS

- **Breast Cancer Classification: Hybrid Deep Learning Approach (Master's Thesis)** Apr 2020 – Nov 2020
Tools: VGG16, SVM, MLP, Random Forest, INBreast dataset, NumPy, Pandas, Scikit-learn, Keras 
 - Developed a breast cancer classification model combining a fine-tuned VGG-16 CNN for feature extraction and traditional ML classifiers (SVM, MLP, Random Forest) for final prediction
 - Improved upon baseline model (AUC = 0.95) by achieving AUC = 0.98 using SVM, with further performance gains using MLP and Random Forest
 - Trained and evaluated the model on the INBreast dataset using Google Colab; leveraged whole-image mammogram model architecture by [Li Shen](#)

THESIS AND PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

- [T.1] Briki, M.E. (2020). *Medical Images Classification Based on Deep Features Extraction Exploiting Transfer Learning*. Master's Thesis, University of Abou Bekr Belkaïd Tlemcen, Algeria. Supervised by Prof. [Settouti, N](#) and Dr. [Bechar, MEA](#).

SKILLS

- **Machine Learning:** TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy, OpenCV, Matplotlib, Plotly
- **Programming Languages:** Python, MATLAB, SQL
- **Dev Tools & Platforms:** Docker, Streamlit, Git, GitHub, VS Code, Jupyter Notebook, Google Colab, Kaggle Notebooks, Ubuntu
- **Soft Skills:** Problem-solving and creativity, Critical analysis, Team collaboration, Proactive communication, Time management and prioritization, Adaptability


CERTIFICATIONS & TRAINING

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| • AWS Machine Learning Fundamentals Nanodegree from Udacity | <i>Aug 2024</i> |
| • AI Programming with Python Nanodegree from Udacity | <i>Feb 2024</i> |
| • Data Science & Analytics from HP LIFE | <i>Oct 2023</i> |
| • Applications of AI for Anomaly Detection from NVIDIA DLI | <i>Feb 2023</i> |
| • Introduction to Machine Learning from Anaconda | <i>Feb 2023</i> |
| • Introduction to Python Programming from Anaconda | <i>Feb 2023</i> |
| • Introduction to SQL from Anaconda | <i>Feb 2023</i> |
| • Google Cloud Academy from BambooGeeks | <i>Jan – Feb 2023</i> |
| • AI for Medical Diagnosis from DeepLearning.AI | <i>May 2022</i> |
| • Google Cloud Digital Leader Training Professional Certificate from Google Cloud | <i>May 2022</i> |
| • TensorFlow Developer Certificate from TensorFlow | <i>Apr 2022</i> |
| • Introduction to TensorFlow for AI, ML, and DL from DeepLearning.AI | <i>Apr 2022</i> |
| • Google IT Support Professional Certificate from Google | <i>Apr 2022</i> |
| • Fundamentals of Deep Learning from NVIDIA DLI | <i>Feb 2022</i> |
| • Machine Learning Academy from BambooGeeks | <i>Jan – Feb 2022</i> |
| • Kickstart your Career in Tech from BambooGeeks | <i>Nov 2021</i> |
| • MENA 60 Days on Tech Challenge from Google Cloud | <i>Nov – Dec 2021</i> |
| • IBM Machine Learning Essentials from IBM | <i>Nov 2021</i> |

VOLUNTEER EXPERIENCE

- **Co-Founder and Former President** *Dec 2015 – Feb 2017*
[BEI Club](#)
 - Co-founded the BEI Club, a student organization focused on promoting Biomedical Engineering and Informatics
 - Organized seminars and events to enhance students' knowledge and skills in the field
 - Led regular meetings with club members to discuss potential projects and initiatives

COMPETITIONS

- **Hult Prize OnCampus Competitor** *Dec 2018*
[Hult Prize Foundation](#) 
 - Competed in the first-ever edition of the Hult Prize held in Algeria
 - Proposed a nonprofit e-learning platform aimed at strengthening Africa's educational ecosystem

ADDITIONAL INFORMATION

Languages: English (Fluent, [EF SET C2](#)), French (Conversational, [TCF B2](#)), Arabic (Native)

REFERENCES

References available upon request.