Taycir Yahmed

Passionate Data Science and Machine Learning engineer

Autonomous, always eager to learn and passionate about solving business challenges using data science and big data analytics, I thrive in building valuable data products and designing innovative AI solutions for various business needs.
Objective: Full-time position in machine learning / data science, starting from July 2018

Paris, France
(+33) 0783890129
taycir.yahmed@gmail.com

tayciryahmed.com
github.com/tayciryahmed

Skills:

Deep/Machine learning:
pytorch, sklearn, keras, tensorflow, spark mllib/ml

Programming Languages:
python (expert), SQL (expert), R (prior), C++ (prior), java (prior), matlab (prior)

Big data: Hadoop, spark, kafka, elasticsearch, MR

Web: html5, javascript, jquery, node.js, flask

Also: jupyter, git, docker, linux, travis

Languages:
English: Fluent, Toeic : 975
French: Fluent, Voltaire: 812
Spanish: Intermediate
German: Beginner
Chinese: Beginner
Arabic: Fluent

Certifications:
- Deep learning (Andrew Ng)
- Mobile developer (IBM)

Projects / challenges:
- Fake news detection
- Recommender system
- Sounds identification
- Face recognition
- Credit scoring
- Chatbots

Distinctions:
- Entrepreneurship and innovation challenge, 2016

- IBM mobile, cloud and big data hackathon, 2014

- Humanitarian awards: Best communication, 2015

Volunteering:
- Social media coordinator
- Open source contributor
- TED translator

EDUCATION

Master of research / ParisSaclay University: X, ParisSud, 2018
Deep/Machine learning, image processing, text mining, NLP, big data.

Engineer's degree / Telecom ParisTech, 2018
Data science, optimisation, statistics, applied mathematics. *GPA 3.99.*

Engineer's degree / Institut Mines Telecom - Supcom, 2018
Top of the school. Telecoms & computer science.

Associate's degree / CPGE, MPSI-XMP*, 2014
Maths & physics. Top 1% at the examination leading to engineering schools.

Baccalaureate / Lycée Pilote Ariana, 2012
Mathematics, obtained with Highest Honors 19.20/20, ranked 10th on the national level.

EXPERIENCE

NLP/Deep learning internship, BNP Paribas / France, January - July 2018

Mission: Enhancing the machine translator's performance using deep learning techniques.

- Implementing solutions based on deep learning architectures: seq-2-seq, lstm, rnn.
- Increasing the BLEU **score** by using word embedding techniques and language models.
- Integrated recent research findings, e.g. beam search and external knowledge.
- *Techs:* python, docker, git, tensorflow, pytorch, gensim, nltk, spacy

Big data science internship, Renault / France, July - September 2017

Mission: Production-ready **predictive maintenance** solution for automobile factories.

- Predicted +87% of future defects in the manufacturing plants' robots, by implementing an end-to-end solution, with TDD, continuous integration and log monitoring components.
- Reduced manufacturing costs by providing business teams real-time **visualization** dashboards, based on **stream processing**, which led to an increase in productivity.
- *Techs:* spark, hadoop, elasticsearch/kibana, kafka, nifi, hive, gitlab, jenkins

Analytics/data science project, CB Group / France, February - June 2017

Mission: Data analytics to support deeper market understanding, for better decision-making.

- Delivered insights about the company's **market share** in 732 economic sectors with 5 hierarchical levels, by aggregating datasets from different sources, using python.
- Modeled the geographic density: hypothesis testing and variable importance estimation.
- Developed a **dashboard** to visualize the findings following Google design patterns.

Data science internship, IBM / Tunisia, June - August 2016

Mission: Pilot project to test IBM Data Science Experience cloud platform (beta)

- Implemented **workflows**, illustrating use cases for the "University Relations" department.
- Predicted post-collegiate earnings with -15% of error, by implementing **regression** workflows, handling missing values with imputation techniques and **feature** engineering.

Software development internship, IBM France Lab / France, June - August 2015

Mission: Proof of concept of integrating IBM products in a mobile app based on *speech-to-text.*

- Worked with 4 interns, managed **design** thinking sessions and was responsible for the user interface and mobile **development** with html5, javascript, jquery and MobileFirst.
- Helped with the backend dev in node.js & MySQL, by integrating Bluemix services.

Seeds For The Future Program, Huawei / China - Session 2016
Technical training at Huawei labs with language and calligraphy courses at Beijing University.

GROUPE RENAULT

Alliance IT Services
Datalake and Big Data Department
Kamelia BENCHEKROUN
13, avenue Paul Langevin
92359 Le Plessis Robinson cedex
www.groupe.renault.com

September, 15th 2017

RECOMMENDATION LETTER

Dear Sir or Madam,

As a responsible for the Big Data and Datalake platform at Renault Nissan Alliance, I am very pleased to write this letter of recommendation for Taycir Yahmed.
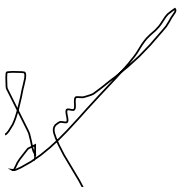
Taycir is that rare pearl, highly competent, intelligent and passionate about advanced data analytics, data science and machine learning. During her summer internship at Renault, she has demonstrated dynamism and decisiveness on resolving complex business issues related to predictive maintenance in the company's connected plants.

The excellent work she has done in such a short period of time, includes the industrialization of large-scale data science pipelines in a Big Data ecosystem, using devops best practices and an agile approach. Indeed, she showed a teamwork initiative and cared about knowledge transfer to her colleagues in a professional manner.

Taycir's personal qualities are as impressive as her intellectual accomplishments. Extremely kind and generous, the maturity that she has demonstrated leads me to believe her capable to succeed in everything she undertakes.

Sincerely,

Kamelia BENCHEKROUN

IBM

Dear Sir/Madam,

I have known Ms. Taycir Yahmed since 2015 when she had her first internship at IBM as part of the Hackathon winning team. She showed ability to effectively collaborate in a team and played an instrumental role in driving the project to completion.

Then, I had the pleasure to be her mentor during her 2016 internship, where she took the initiative to work on the newly announced IBM Data Science Experience Cloud platform. Taycir showed passion to learn, discipline in execution and structure in approach. She brought innovative ideas to leverage IBM technology in a solution solving real business problems. When she presented her work to an audience of senior IBM professionals with varying backgrounds (sales, marketing, technical, digital), the feedback was extremely positive. Taycir could clearly explain the technology and articulate the value proposition of her solution.

I believe Taycir has all the skills and qualities expected from a successful engineer and a true IT professional and I wish her all the best in her career.

Kind regards,

Senda BOUKEF
Cloud Solution Architect, IBM North Africa
sboukef@tn.ibm.com
Mobile phone: +216 99 230 431

Paris, May 10, 2017

To Whom It May Concern,

I am pleased to write a letter of recommendation for Taycir Yahmed.

I have known Taycir for the past months as she has taken the microeconomics course that I teach at Telecom ParisTech: it includes data analytics, hypothesis testing and time series manipulation. As her professor, I have had an opportunity to observe her participation and interaction in class and to evaluate her knowledge of the subject matter. She is an outstanding student in all aspects. Taycir has proven that through hard work and teamwork, she can accomplish tasks in a courteous and timely manner.

Taycir is an open-minded, perceptive, quick individual with a high aptitude for math and computer science. She especially excels in her data related classes, which she says are her favorites for the insights and data-driven findings that create business value. Outside of the classroom, Taycir is engaged in different kinds of challenges: data science, entrepreneurship and humanitarian work. She makes a great addition to any team and a delightful presence both on the personal and professional levels. Taycir is always eager to share her knowledge with others, learn new skills and work in a multicultural environment.

She is well equipped to grow from challenges that she is presented with. Her patience, perseverance and strong computer programming and mathematics skills, prepare her beautifully for any new challenge in both her academic and professional future. I strongly endorse Taycir and I am sure she will benefit from the opportunity she will be given.

Sincerely,
Patrick Waelbroeck

Madame, Monsieur,

J'ai eu l'occasion de rencontrer Taycir Yahmed en juin 2015, lorsqu'elle a passé, avec trois camarades, deux semaines dans mon équipe, au sein d'IBM France Lab, dans le cadre d'un stage chez IBM suite à leur victoire du hackathon organisé par IBM Tunisie en décembre 2014.

Au cours de ses deux semaines, les quatre stagiaires ont conçu et maquetté l'application mobile qu'ils avaient ébauchée durant le hackathon, en appliquant les principes de design thinking, d'architecture et de développement agile mis en oeuvre par nos équipes de développement. Après leur retour en Tunisie, ils ont développé en quatre semaine un prototype fonctionnel utilisant les outils et technologies IBM qu'ils avaient étudiés en début de stage.

Taycir Yahmed m'a paru être une jeune femme intelligente, sérieuse, volontaire et déterminée. Outre sa capacité à comprendre et à appliquer les technologies proposées, elle a fait montre pendant le stage de qualités de rigueur, de décision et de persévérance, et je n'ai aucun doute qu'elle saura tirer le meilleur parti de l'occasion qui lui est offerte de continuer ses études à Télécom et qu'elle fera honneur à l'école.

Gentilly, le 10 février 2016

Christian de Sainte Marie
Responsable du centre des études avancées d'IBM France
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