# Taycir Yahmed

Data Scientist / Machine Learning engineer
Looking for a full-time position, starting from July 2018

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

LinkedIn:// **tayciryahmed**
Github:// **tayciryahmed**
Website:// **tayciryahmed.com**

## Skills

### Machine learning
pytorch, sklearn, keras,
tensorflow, spark mllib/ml

### Programming
python (expert), C++ (prior),
R (prior), SQL (proficient),
java (prior), matlab (prior)

### Big data
Hadoop, spark, kafka,
elasticsearch, hive.

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

### Other tools
jupyter, git, docker,
linux, travis, GPUs

## Certifications

Deep learning (Andrew Ng)
Mobile developer (IBM)

## Languages

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

## Distinctions

- Entrepreneurship and
innovation challenge, 2016
- Humanitarian awards:
Best communication, 2015
- IBM mobile, cloud and big
data hackathon, 2014

## Volunteering

Social media coordinator
Open source contributor
TED translator

## Education

**Master of research,** Paris-Saclay University, 2018
- Deep/Machine learning, image processing, text mining, NLP, big data.
- Projects: Fake news detection, recommender system, chatbots.

**Engineer's degree,** Telecom ParisTech, 2017
- Data science, optimization, statistics, applied mathematics. GPA 3.99.
- Projects: Face recognition, sounds identification, credit scoring.

**Engineer's degree,** Institut Mines Telecom - Supcom, 2016
- Top of the school. Telecommunication and computer science.
- Project: Customer satisfaction using NLP and machine learning.

## Experience

### Machine learning research, BNP Paribas | France, Jan - Jul 2018

Mission: Data augmentation for neural machine translation.

- Increased the BLEU score using bilingual dictionaries, clause detection and segmentation with **attention weights** , back-translation and synthetic contexts.
- Handled rare words for better translations using BPE, normalization with **named-entity** recognition and external knowledge integration.
- Improved context **disambiguation** using pre-trained word embeddings and linguistic features: part-of-speech tags, dependency parsing labels and lemmas.

Mission: Internal document matching for specialized machine translation.

- Matched multilingual documents to create a parallel in-domain corpus, using OCR, a cross-lingual version of **bag-of-words** and sentence alignment.
- Trained **specialized** neural machine translation models, using fine tuning, up-sampling and domain tags as additional features, using GPUs.

Mission: Multi-document summarization and text simplification.

- Improved the current tool to deal with **multi-documents** & text simplification.

### Big data science intern, Renault | France, Jul - Sep 2017

Mission: Production-ready predictive maintenance solution for the factories.

- Predicted +87% of future defects, by implementing an end-to-end solution, with batch machine learning, **continuous integration** and log monitoring.
- Reduced manufacturing costs by providing business teams **real-time** visualization dashboards, based on **stream processing** in a big data cluster.

### Analytics/data science project, CB Group | France, Feb - Jun 2017

Mission: Data analytics to support deeper market understanding.

- Delivered insights about the company's **market share** in 732 economic sectors.
- Modeled the geographic density: hypothesis testing and variable importance.
- Developed a **dashboard** to visualize the findings with Google design patterns.

### Data science intern, IBM | Tunisia, Jun - Aug 2016

Mission: Pilot project to test IBM Data Science Experience cloud platform.

- Predicted post-collegiate earnings with -15% of error, using **regression** , handling missing values with **imputation** techniques and feature engineering.

### Mobile & analytics intern, IBM France Lab | France, Jun - Aug 2015

Mission: Mobile app to determine the adequate profile for an emergency

- Design thinking and development, including **speech-to-text** and text mining.

### Seeds For The Future Program, Huawei | China, Session 2016

Technical training at Huawei labs with language 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.
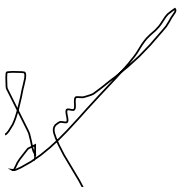
Taycir is that rare pearl, highly competent, intelligent and passionate about advanced data analytics, data science and machine learning. During her summer internship at Renault, she has demonstrated dynamism and decisiveness on resolving complex business issues related to predictive maintenance in the 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**

Tunis, November 15th, 2016

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*
*IBM France Lab*
*9 rue de Verdun*
*94253 Gentilly Cédex*
*Tél. 01 49 08 29 81*