



# Ahmed BESBES

Senior Data Scientist  
Software engineer

## CONTACT

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## EDUCATION

**Master of Science in machine learning and computer science**

Telecom ParisTech  
2012 – 2016

**Master of Science in digital business**

HEC Paris  
2015 – 2016

## LANGUAGES

- ✓ English: Fluent
- ✓ French: Native
- ✓ Arabic: Native

## SKILLS

- Python
- Deep learning (PyTorch, TensorFlow)
- ReactJS
- AWS (EC2, S3, Lambda)
- Git
- Docker
- ElasticSearch

## Professional Summary

Machine learning engineer with 4+ years of experience in multiple industries (banking, aerospace, public sector). Hands-on, passionate about neat design and automation, I prototype, craft and deploy AI applications at scale to deliver value. With technical background in software engineering and machine learning, I pay close attention to code maintainability and reusability.

I'm also interested in open-source and education:

Blog: <https://ahmedbesbes.com>

Github: <https://github.com/ahmedbesbes>

YouTube: <https://bit.ly/2Mcgk1S>

Medium: <https://medium.com/@ahmedbesbes>

## Employment history

### Capgemini Invent | Senior Data Scientist

Oct. 2016 - Present

Worked on different clients' projects in multiple sectors:

- Built and deployed supervised and unsupervised fraud detection models for two major french banking institutions
- Designed a market research and segmentation tool for a major french facility management company
- Developed a social media monitoring application using natural language processing pipelines and a visualization stack for a french aerospace leader to track online union communications and prevent strikes
- Developed an AI-powered search engine to mine Covid-19 research papers: from prototyping to deployment  
Demo here: <https://www.youtube.com/watch?v=iVsteYEF0ko>

Led, developed and deployed multiple internal Capgemini tools and applications used to pitch clients:

- A computer vision web application to monitor airport internal activities using YOLO v3.
- A search engine to mine and extract Grand Débat topics using state-of-the-art language models (BERT)
- A brain MRI segmentation model to detect hemorrhages using PyTorch

Engaged in the data science community:

- Designed internal trainings in computer vision, natural language processing and deep learning
- Participated to X-HEC teaching sessions by helping students get a grasp of state-of-the-art techniques in NLP

### Chap.co | Junior Data Scientist

Sept. 2015 - Feb. 2016

The goal of Charp.co was to automatically generate valuable leads and prospects for tech clients such as Google and Salesforce.

- Large-scale data scraping from multiple sources
- Ensuring a rigorous quality control process of the data
- Enriching with internal and external metadata
- Building and evaluating predictive models

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### Orange Labs | Software Engineer Intern

Mar. 2015 - Aug. 2015

Building an interactive Kibana dashboard to analyze real-time Dailymotion streaming data

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### Amadeus I.T Group | Software Engineer Intern

Sept. 2014 - Feb. 2015

Building an anomaly detection application to help travel agents track and block suspicious activities