

# CHEN HE

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## CAREER SUMMARY

Current PhD student at Mines Saint-Etienne. 3+ years experience specializing in data intelligence and machine learning. Interested in devising a better problem-solving method for data-driven decision making tasks and learning new technologies and tools if the need arises. **Personal-ity traits:** Excellent written and verbal communication skills, Excellent analytical skills, Leadership and team player skill, Ability to work under pressure.

## PROFESSIONAL SKILLS

**Languages:** English (full professional proficiency with TOEIC Listening and Reading Test 800), French (professional working proficiency, B2 level), Mandarin (native proficiency)

**Programming:** Python, R, Java, C++, Git, Unix shell scripting, Spark, Hadoop.

**DBMS:** MySQL, SQL server, AWS, NoSQL, HiveQL, Spark SQL.

**Data-driven modeling:** Classification, Regression, Clustering, Association Rule Mining, Anomaly Detection, Deep Learning, Mathematical programming, Bayesian inference, Recommender systems.

## PROFESSIONAL EXPERIENCE

### Mines Saint-Etienne • Fully funded PhD program

St-Étienne, France

PHD STUDENT IN INDUSTRIAL ENGINEERING

Oct. 2019 - Oct. 2022

- Completed two research projects in health management & data intelligence, published two papers in international Conferences and journals.
- Worked as a graduate teaching assistant (TA), performed all TA duties including mentoring, lecturing and clerical work.
- *Technologies:* Python, Shell scripting.

### Hubert Curien Laboratory • Internship

St-Étienne, France

MACHINE LEARNING TRAINEE IN DATA INTELLIGENCE TEAM

Feb. 2019 - Sep. 2019

- A quantitative study of CNN parameters' precision variation on classification performance (i.e., inference speed and accuracy) for a image classification task on FPGAs.
- Implemented a GAN (Generative Adversarial Network) framework for contours detection.
- *Technologies:* Python, Tensorflow, Shell scripting.

### XXII Group • Internship

Paris, France

MACHINE LEARNING TRAINEE IN R & D DEPARTMENT

Jul. 2018 - Sep. 2018

- Optimized a pedestrian detection project including hyper-parameter tuning, loss function and SGD algorithm optimization.
- Improved model's inference speed from 12 to 22 FPS on Nvidia Jetson TX2 with NVIDIA TensorRT.
- Implemented multiple docker images for deploying the pedestrian detection project to Nvidia Jetson TX2.
- *Technologies:* Python, Yolo, Docker, Shell scripting.

## PROJECT EXPERIENCE

### News filtering project • Telecom Saint-Etienne

St-Etienne, France

AUTOMATIC ANALYSIS OF FINANCIAL NEWS AND FILTERING NEWS RELATED TO THE EARNING OF COMPANIES, [CODE].

Oct. 2018

- Contributed expertise in NLP and Machine Learning including word embedding, classification, performance evaluation, etc.
- *Technologies:* Word embedding (TF-IDF, N-gram), Classification.

### Repayment ability prediction project • Telecom Saint-Etienne

St-Etienne, France

AUTOMATIC ANALYSIS OF CLIENTS' PROFILE AND PREDICTING THEIR REPAYMENT ABILITY, [CODE].

Jul. 2018

- Contributed expertise in risk modeling and in particular predicting clients' repayment ability by a logit model.
- *Technologies:* Dimension reduction, Logistic regression, NoSQL Hadoop.

## EDUCATION

**Mines Saint-Etienne (2019-2022):** PhD in Industrial Engineering applied to Healthcare. Research topic: "mining, understanding, and optimizing medical miscoding behaviors for coding practice improvement.". Thesis director: Prof. Xiaolan Xie.

**Jean Monnet University (2018-2019):** A double master's degree (M.S.) in Data and Connected System.

**Telecom Saint-Etienne (2016-2019):** Master's degree (M.Eng.) in Computer Science with minor in Big Data and Artificial intelligence,

**Xidian University (2013-2017):** Bachelor of Engineering (B.Eng.) in Electronic Science and Technology.