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. A big fan of Linux who enjoys to customize all of the development environment. Interested in devising a better problem-solving method for data-driven tasks and learning new technologies and tools if the need arises. **Personality 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. Topic: hospital code prediction using electronic health records (Advisor Prof. Xiaolan Xie, Mines Saint-Etienne).
Jean Monnet University (2018-2019): A double master's degree program (Master of Science) in Data and Connected System.
Telecom Saint-Etienne (2016-2019): Master of Science in Computer Science with minor in Telecommunications & Networking.
Xidian University (2013-2017): Bachelor of Engineering in Electronic Science and Technology.