

GUGLIELMO MENCHETTI

Chicago, IL ◊ +1 (312) 823 9842

guglielmomenchetti.gm@gmail.com ◊ linkedin.com/in/guglielmo-menchetti/ ◊ github.com/gmenchetti

EDUCATION

- Master of Science in Computer Science** Jan 2018 - May 2020
University of Illinois at Chicago, Chicago, IL (Current Location) GPA: 4.0/4.0
Relevant coursework: *Machine Learning, Deep Learning, Natural Language Processing*
- Master of Science in Computer Science and Engineering** Sep 2017 - May 2020
Politecnico di Milano, Milan, Italy GPA: 3.9/4.0
Relevant coursework: *Data Mining, Recommender Systems, Artificial Intelligence*
- Bachelor of Science in Computer Science and Engineering** Sep 2013 - Apr 2017
Università di Firenze, Florence, Italy GPA: 3.7/4.0
Relevant coursework: *Computer Algorithms and Data Structures, Computer Architectures, Databases*

TECHNICAL SKILLS

- Languages** Python, C++, Java, JavaScript, Matlab
- Tools & Frameworks** PyTorch, Keras, Scikit-Learn, Pandas, Numpy, GIT, Laravel, PHPUnit, PyQt
- Certifications** Deep Learning Specialization by deeplearning.ai (Coursera)

WORK EXPERIENCE

- Graduate Student Researcher** Jan 2019 - May 2020
University of Illinois at Chicago - Chicago, IL
- Implemented a **Convolutional Neural Network** for classifying protein families using **Keras**
 - Developed my Master's thesis on **Facial Expressions** recognition
- Machine Learning Engineer Intern** May - Aug 2019
eNursing llc - Chicago, IL
- Designed a Multi-Label **Convolutional Neural Network** to perform Facial Expression recognition
 - Implemented the model in **PyTorch** and used it to estimate the pain level in cancer patients' videos
 - Developed a user-interface using **PyQt** to record and analyze new videos

PROJECTS

- Facial Expression Recognition - UIC Master's Thesis** May 2019 - May 2020
- Designed a neural network architecture for Facial Expressions detection in **PyTorch**
 - Model based on **Feature Pyramid Network** and **Region Of Interest Pooling**
 - **Improved F1-score by 3%** in a public benchmark with respect to the state-of-the-art
- Automatic Question Answering on Amazon Products - UIC** Sep - Dec 2019
- Developed a **Recurrent Neural Network** for binary Question-Answering using **Keras**
 - Applied data exploration and cleaning using the **NLTK** library
 - Deployed a **MySQL** database on **Amazon RDS** and developed the APIs
- TravleNDARPlus - Politecnico di Milano** Mar - Jul 2018
- Developed a calendar based application capable of providing mobility solutions
 - Implemented and tested RESTful APIs using **Laravel** and **PHPUnit**
 - Produced extensive documentation such as **RASD, Design** and **Testing documents**

ACTIVITIES AND AWARDS

- Publication on 2019 IEEE Global Conference on Signal and Information Processing** Nov 2019
- "Pain Detection from Facial Videos Using Two-Stage Deep Learning", G. Menchetti et al.
- Participant at hackSAIC (Art & Technology Hackathon)** Apr 2019
- Created a **3D point-cloud** representation of a room in a VR environment
 - Project displayed at the "Art & Technology exhibition" at School of the Art Institute of Chicago
- Recipient of the "Best Double Degree Student Scholarship - UIC-PoliMi"** Jun 2018
- Scholarship granted by UIC for the double degree in collaboration with Politecnico Di Milano