

Hoang Duy Trinh - CV

Telecommunication Engineer | Data Scientist

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Castelldefels (Barcelona), Spain Born on 27th February 1991 in Padua, Italy



Experience

- September 2016
Present | **Research Assistant, Centre Tecnològic Telecomunicacions Catalunya, Barcelona, Spain**
 > Research Assistant in the Communication Networks Division of CTTC
 > Early-Stage Researcher in the SCAVENGE Project (EU H2020 Framework) - MSCA
Mobile Networks | 5G | LTE | Machine Learning | Data Analytics | Self-Organized Networks
- Novembre 2015
September 2016 | **IT Consultant, Reply SpA, Milan, Italy**
 > Cloud-based solutions for warehouse management for big companies (e.g. IKEA, Unilever, Costco)
 > Logistics processes analysis and customers personalized solutions
Amazon AWS | Oracle Database | Data Integration | Cloud | Software Development | Logistics

Formation

- November 2018
January 2019 | **PyTorch Scholarship Challenge from Facebook, Udacity**
 > *Challenge Course* : Introduction to Deep Learning with PyTorch
- September 2016
Present | **PhD Student, Telecommunication Engineering, Polytechnic University of Catalonia, Barcelona, Spain**
 > *Thesis* : Data analytics for mobile network usage patterns in 5G networks powered by energy harvesting
- October 2013
October 2015 | **M.Sc. Telecommunication Engineering, University of Padua, Padua, Italy - Final Degree 110/110**
 > *Thesis* : Robust Heart Rate Estimation through Wearable Photoplethysmographic Sensors
 > *Relevant Courses* : Network Modeling, Wireless and Sensor Networks, Network Security, Channel Coding, Source Coding, Digital Transmission, Digital Signal Processing, Propagation and Antennas, Game Theory
- October 2010
July 2013 | **B.Sc. Information Engineering, University of Padua, Padua, Italy**
 > *Relevant Courses* : Statistical Data Analysis, Data structures and Algorithms, Mathematical Analysis, Algebra, Signals and Systems, Control Theory

Skills

- Technical Skills : **Data Analytics, Machine Learning, Statistics, Wireless, Mobile Networks, LTE**
Coding : **Python** (pandas, sklearn, keras, pytorch, numpy, matplotlib, tensorflow), **MATLAB**, R, Java, C++, PL/SQL
Development Tools : **Jupyter**, Eclipse, RStudio, Maven, SVN, git
Databases : **Oracle DB**, MySQL, MongoDB
Others : Android Studio, MuleSoft Anypoint, SDR

Publications

- September 2018 | **Mobile Traffic Prediction from Raw Data Using LSTM Networks**, HD. Trinh, L. Giupponi, P.Dini, 2018 *IEEE 29th Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)*, Bologna, Italy
- October 2017 | **Analysis and Modeling of Mobile Traffic Using Real Traces**, HD. Trinh, N.Bui, J. Widmer, L. Giupponi, P.Dini, 2017 *IEEE 28th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC)*, Montreal, Canada

Languages

- > **English** (Professional Proficiency), **Italian** (Mother Tongue), **Spanish** (Basic Proficiency), **Vietnamese** (Basic Proficiency)