Tiphaine HENRY

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EDUCATION

IMT Atlantique (Mines de Nantes) – Msc in Engineering, Research track — Nantes, France 2016-2019
Major : Organization & Management of Information Technologies

University of California – Academic Exchange, Department of Computer Science and Engineering — San Diego, USA 2018
Human Computer Interaction Research, BI Analysis, Machine Learning, CITI certification

Lycée Chateaubriand- Classe Préparatoire aux Grandes Ecoles — Rennes, France 2014- 2016
Fundamental sciences and Philosophy - 2-year intensive program preparing for the national exam for entry to top French engineering schools

PROFESSIONAL EXPERIENCE

AI Research intern, IBM Research (Current) — Zürich, Switzerland 2019, 6 months
Study and development of a knowledge ingestion platform

AI Research intern, Orange Labs — Rennes, France 2018, 3 months
Studied embedded AI accelerators for Deep Learning inference in the context of Smart Homes
- Monitored an industrial and academic watch on embedded AI processors
- Developed a standardized test bench for benchmarking AI Chips during inference cycles (deployed on a Raspberry Pi3 and PC. Bash & Python Scripts. Caffe and Tensorflow implementations)

IoT Research intern, Orange Labs — Rennes, France 2017, 1 month
Integrated an R&D team working on LoRa (Long Range Emission) network technologies
- Conducted GPS Lift Analysis and Measurements according to different configurations of the devices
- Analyzed geo-location data emitted by 50 devices with Excel
- Implemented and exploited two databases (Excel Access and MySQL)

Digital banking intern, BNP Paribas — Rennes, France 2017, 1 month
Trained customers to transition from in-bank services to full service online banking
- Helped clients getting familiar with the bank app and new functionalities available in the ATM

RESEARCH EXPERIENCE

Intelligent Tutoring Systems & Surgical Training : Opportunities & Challenges
Department of Computer Science (IMT Atlantique) & Nantes School of Medicine – Parcours Excellence Recherche (6 months)
- Realized a state of the art on Intelligent Tutoring Systems & Gesture-based Learning
- Interviewed a pool of surgeons from Nantes Hospital on the potential uses of AI in surgical training
- Redacted an internal report and presented the results of the study to various audiences

Gauging Divergent Thinking In Visual Tasks Through Pupillometry and Eye Tracking
Department of Computer Science & Engineering (UCSD) (3 months)
- Lead HCI field-experiments: prototyping and user-testing & analyzed the results with a statistical approach
- Redacted a research paper summarizing the - T. Henry, J. Lilleberg, Ø. Sigholt. *Gauging Divergent Thinking In Visual Tasks Through Pupillometry and Eye Tracking. UCSD, 2017*

IT SKILLS AND LANGUAGE ABILITIES

Programming Languages	Unix, Java, Python, HTML, CSS, JavaScript, AngularJS, React, Scala
Frameworks	jQuery, Bootstrap, Unity, Gatsby, TensorFlow, Caffe
Tools	Git, Heroku, MySQL, R, Tableau, Spark, Latex
Languages	French- native | English– fluent (IELTS: 8/9) | Spanish- fluent | German- notions

SELECTED IT PROJECTS

Study of the best business implementations using traffic data & Machine Learning algorithms — 2018, 1 month
- Processing of the data: data cleansing, exploratory analysis, predictions. Presentation of the results to business investors

Elaboration of a dashboard monitoring economic and social performances of African Countries — 2018, 1 month
- Selection of KPIs, preprocessing of data, generation of reports with Tableau

Statistical analysis of 2016 greenhouse gases data using R software — 2017, 2 months
- Compared the results given with the Principal Component Analysis and the Descending Hierarchical Classification analyzing the lines of business, countries and incomes

HONORS & AWARDS

Artificial Intelligence Challenge, Institut Mines Telecom. 1st Prize.
Entrepreneurship Hackaton in Paris, development of a startup with an AI core strategy

Women Centric Hackaton, University of Californian San Diego. Northrop Grumman Prize
Development of an AR app implementing a reward system based on the results of a pedometer (Unity)