SELIM AMROUNI

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EDUCATION

E DUCATION	
 COLUMBIA UNIVERSITY: Master of Science in Operations Research (Expected) Relevant courses: Deep Learning, Reinforcement Learning (PhD class), Simulation, Machine Learning, Stochastic Models, Optimization Models, Data Mining, Data Analytics 	New York, NY Sep 17 – Dec 18
IFP SCHOOL: Master of Science in "Energy&Markets" (Dual degree with CentraleSupelec)Major in Energy Economics	Paris, FR Sep 15 – Jun 16
CENTRALESUPELEC: Diplôme d'Ingénieur Supélec, equivalent to Master of Science • Major in Electrical Engineering and Applied Mathematics	Paris, FR Sep 13 – Jun 16
PROFESSIONAL EXPERIENCE	
 COLUMBIA UNIVERSITY NEW YORK PRESBYTERIAN: Research Assistant – Tatonetti Lab Working on investigating differentially private models to enable clinical data sharing Curating a set of models used in clinical research to assess performance of private models 	New York, NY Sep 18 – Dec 18
 COLUMBIA UNIVERSITY: Teaching/Course Assistant Teaching Assistant for B9122 (PhD) Computing for Business Research – Grading students exams, assisting during recitations, Managing one-to-one advising in a class of 49 students Course Assistant for IEOR 4720 Deep Learning – Preparing TensorFlow code examples for lectures 	New York, NY Sep 18 – Dec 18
 NYU LANGONE HEALTH: Research Engineer (Part-time) Pursuing the research to improve the accuracy of the current inpatient discharge prediction model Conducting research to optimize surgery scheduling and operating rooms utilization (Pilot Program) 	New York, NY Sep 18 – Dec 18
 NYU LANGONE HEALTH: Research Intern – Graded "A+" Conducted research to build a capacity model to predict hospital bed availability for the next 72 hours Gathered the different databases from the hospital services, set-up the intra-day data acquisition process, built visualizations, engineered features and developed Graphic User Interface Delivered a product enabling the 10 members of the bed planning staff to manage over 30,000 inpatients per year spread among 600 bed units 	New York, NY Jun 18 – Aug 18
 ENGIE INEO, Energy & Systems: Deputy Project Manager – Oil and Gas department Budgeted the proposals during the tendering phases, average size: \$300K – \$12MM Performed web-scraping, API requests, data preprocessing and data analysis 	Paris, FR Jul 16 – Jul 17
 ENGIE INEO, Energy & Systems: Lead Engineer Intern Designed the Polycom video conference architecture: Project Kaombo FPSOs (Total) 	Paris, FR Jun 15 – Sep 15
RESEARCH PROJECT	
Project: "Deep Portfolio Management –Reinforcement Learning – Supervised by Prof. Shipra Agrawal" • Implementing a Policy Gradient for portfolio management based on a paper (Jiang et al. 2017) • Developing of the simulation environment using Python and the CNN using TensorFlow	New York, NY Mar 18 – May 18
Project: "Capsules Network (CapsNet) – Deep Learning – Supervised by Prof. Ali Hirsa" • Implementing CapsNet model using TensorFlow and Google Cloud Engine for GPU computing	New York, NY Feb 18 – May 18
Project: "DirectT Lab – Transportation Analytics – Supervised by Prof. Sharon Di" • Analyzed real-world data to forecast churning of drivers and to cluster their lifetime value • Built of data pre-processing, analysis and computation for MDP model using GeoPandas	New York, NY Jan 18 – Apr 18
Project: "Spookie Kaggle Competition, Identify Horror Authors from Writings – Data Analytics" • Built of NLP features, dimensionality reduction, predictive models test and selection	New York, NY Nov 17 – Jan 18
SKILL	
COMPUTER Python (Numpy, Pandas, Keras, Scikit-learn, TensorFlow, Flask, Tkinter), Gurobi, SQL, M	Iatlab, LaTeX
LANGUAGES French (native language), Spanish (conversational)	

Data-Science for fun side projects (Competitions, Real-time gas stations price monitoring tool development),

Co-founded & Managed Supeduc: a student union for private tutoring

ACTIVITIES