Arnaud Minondo

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Experience

- **ONERA - The French AeroSpace Lab** — Palaiseau, France 91120
  Research Intern - Signal Processing - Applied Mathematics — *July 2023 - December 2023*
  - **Research**: With the large amount of radar datas being collected by ONERA their analysis has become impossible solely human hand made. Elaborating treatments of these rough unlabeled data basis was my main goal during the internship. I developed the research in the field of **Complex Valued Neural Networks** involving complex auto encoders to learn particular feature spaces and help about the clustering of the datas. I sensitivity of certain supervised algorithm to the noise in the label annotation.
- **University of California** — Berkeley, CA 94720
  Teacher Assistant — *January 2023 - August 2023*
  - **Teaching**: Assistant Teacher of the course of **Statistics and Data Science for Engineers**, . I have learned to teach high level scientific knowledge effectively by adapting my teaching to the level and needs of each of my students.
  - **Project Management**: Organized group projects. Offered ideas on the scientific approach they could start with and helped them finding solutions when they eventually got stuck.
- **ES Manival** — Saint Ismier, France 38330
  Football Educator — *July 2018 - August 2018*
  - **Football**: Supervised the apprenticeship of the football of a group of children from 10-12yo. Figured exercises, set up tournament for them to improve in their football practice and enjoy the experience.

Education

- **University of California, Berkeley** — Berkeley, CA
  Master of Analytics, Department of Operations Research — *Aug. 2022 – May. 2023*
  - **Mathematics**:
    - Applied Stochastic Process: Martingales, Markov Chains, Queuing Theory, Stochastic Differential Equations
    - Mathematical Programming: Optimization Theory, Linear Optimization, Simplex Algorithm, Non-Linear - Smooth - Non-Smooth - Conic, Frank-Wolf Optimization,
  - **Python**: Machine Learning, Data visualization, Data modeling, Stochastic Simulations, Monte Carlo Simulation, Natural Language Processing, Artificial Intelligence, Deep Learning.
  - **SQL**: Database Theory, Database Development, Database Creation, Data storage, Data Analytics.
  - **SoftSkills**: Innovative, Curious, Persistent, Critical Thinking, Creative, Communicative, Empathetic.
- **Télécom Paris** — Paris, France
  One of the best Engineering School in France, GPA: 4.00 — *Aug. 2020 – July. 2023*
  - **Mathematics**:
    - Calculus: Lebesgue Theory, Kolmogohorov Probability, Fourier Theory, Topology of Complete spaces
    - Algebra: Linear Algebra, Graph theory, Data Structures
    - Information Theory : Signal Processing, Channel theory, Coding theory, Image Processing,
    - Algorithmic : Deep Learning, Language Theory, Turing Decidability Theory, Triage Algorithms, Data Structures, formal B method.
  - **Physics**: Electronics, Quantum Physics, Physics of Waves, Optical, Statistical Physics.
  - **Computer Science**: Programming Languages: **Python**: PyTorch, TensorFlow. **C**: Computer Architecture, development with Linux and the shell, debug, security. **Java**: Object Oriented programming, Triage, Maze-Solver.

Personal Projects

- **Chess AI**: Developed a Chess AI using **Tensorflow** along with an alpha-beta pruning tree search in **Python**. The AI was able to defeat beginner players. It approximately plays at a level of 1000 ELO on chess.com. The repository git is available at: https://github.com/ArnaudMi/ChessAI_MaximeLegarde

Programming Skills

- **Languages**: Python, JavaScript, Java, C, SQL, MATLAB, Excel **Technologies**: AWS, Google Cloud