CHAITANYA KRISHNA VIRIYALA

+33 7 66 50 85 59 chaitanya.viriyala@eleves.ec-nantes.fr
chaitanya-viriyala github.com/chaitanyaviriyala chaitanyaviriyala.github.io

Centralien, looking for a 6-month end-of-study internship starting in April 2021. Throughout my training, I have acquired solid skills in data analysis and processing. I also developed interpersonal skills through various academic group projects.

EDUCATION

École Centrale de Nantes, *Nantes, France*
Engineering Degree (Diplôme d'ingénieur Généraliste) *Sep. 2018 – Present.*
Discipline : Data Science and Statistics, Signal Processing and Imaging (DATASIM)
Professional Option : International business development.

Mahindra Ecole Centrale, *Hyderabad, India*
Bachelor of Technology *Aug. 2014 – May. 2018*
Electrical and Electronics Engineering
Themes: Artificial Intelligence, Probability and Statistics, Data Structures and Algorithms.
Scholarship awarded for two consecutive years

WORK EXPERIENCE

CYME SAS, *Montpellier, France*
Machine Learning/Algorithms Intern *Apr. 2020 – Sep. 2020*
- Cyme is developing PEAKTO, a platform for solving problems related to digital photography and experienced by photographers.
- I have contributed to the strengthening of the toolbar via algorithms to boost the processing and analysis of images as follows : Efficiently detect true similar images; Efficiently detect quasi similar images and detect clusters based on various criteria.
- Efficiently detect images having similar color palettes and to support face detections.

École Nationale Supérieure d'Architecture de Nantes, *Nantes, France*
IT Intern, Team : AAU *May. 2019 – Sep. 2019*
- Development of a tool for data visualization.
- Process: Construction of a " Bending Shader " using Shader graphs proposed by Unity, Isochrone integration of Mapbox in Unity.

CentraleSupelec, *Rennes, France*
Research Intern, Team : SCEE *May. 2017 – Aug. 2017*
- To develop a heterogeneous chip system (ARM processor and FPGA chip) capable of verifying the reliability of a Linux application using Dynamic Information Flow Tracking (DIFT).

PROJECTS

PICMUS : Place Wave Image Challenge for Medical Ultrasound
Guide: Diana Mateus, Professor, ECN, France *Oct. 2020 – Present.*
- Study reconstruction algorithms for ultrasound imaging.
- To qualify and quantify the measures used.
- To provide a fair comparison of the different reconstruction methods.

Real-life case studies using Machine Learning and Data Science
Guide: Srikanth Varma, CEO, AppliedAI *Sep. 2020 – Feb. 2020*
- Predict product reviews on Amazon (Natural Language Processing).
- Personalised Cancer Diagnosis (NIPS 2017 Challenge): Use of different ML models to test on data and compare performance (Log Loss, Confusion Matrix).
- Netflix Film Recommendation System: Solved using a combination of the concepts of recommendation and regression systems.

Study and Identification of International markets in Europe : Promising the development of a subsidiary for Fiitli, a wellness company.
Guide: Samuel Blin, CEO, FIITLI *Nov. 2019 – April. 2020*
- 5-month academic project in direct collaboration with an industrial partner.
- Competitive study and Study of legislation.
- Analysis and identification of potential opportunities for Fiitli.

SKILLS & OTHERS

Themes: Linear Algebra, Probability Theory, Statistical Modeling, Convex Optimisation, Regularisation & Microeconomics
Machine Learning: Regression, Dimensionality Reduction, Density Estimation, Classification and Neural Networks
Programming: Python, R, SQL, Unity (C#), MATLAB, GCP (notions), Git
Languages: Very proficient in English, Working knowledge of French
Interests: Microeconomics, Strategy Games and Traveling
Extras: Numpy, SciPy, Matplotlib, Pandas, Scikit-learn, Keras, Tensorflow, Pytortch, NLTK, PIL, Librosa, CNN, RNN, LSTM, HTML, CSS