

Introduction et programme du module

Cours M2 CCM

Luc Lesoil

Modélisation des problèmes scientifiques

2019/2020

Organisation

Cours :

- 3 séances de 4h, plutôt pratiques

Notation :

- Tp noté (à m'envoyer par mail 15 jours après le dernier cours)

Ressources :

https://github.com/llesoil/modelisation_des_problemes_scientifiques-/

Contact :

luc.lesoil@irisa.fr

Contenu du module

Contenu :

- Traitement des données
- Statistiques descriptives
- Visualisation
- Méthodes statistiques simples

Le cours devrait vous permettre de charger, traiter et expliquer les données à l'aide de python.

Pré-requis ; syntaxe de base de python, jupyter notebook, notion sur les bases de données

Pour continuer ;
Méthodes statistiques avancées,
machine learning, big data

HP Inc. 4.0 ★
Services data scientist II - 4 to 6 months
internship h/f

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[work in an international and dynamic environment.](#)

Key Job specifics/responsibilities

Conduct advanced data analysis in a support and services environment using advanced techniques in order to highlight and to discover unexplored area of focus to improve HP agility and efficiency. In particular it is expected

- To ensure clean data to build new data analytical models
- To deal with large dataset using big data and real time processing to deliver advanced financial analysis or cost modeling
- To use statistical methodologies (Regression, Forecasting,), analytical tools (Clustering, Basket analysis, Decision trees, Random forest etc.) to
- To access data using SQL and building efficient data architecture
- To be expert in developing advanced analysis tools utilizing Advanced Excel, Visual Basic for Applications (VBA) in Excel and other MS Office applications
- To develop user interface based on tableau or PowerBI in order ease data access and data analysis
- Finally share clearly analysis outcome by adapting to the audience. Explain simply the complex. Gain trust & confidence by sharing details without losing your stakeholders.

Skills (procedures and documents the employee has to be acquainted with)

- SQL, DB knowledge
- Big data and real time analytics
- SPARC
- Power BI and Tableau programming, other visualization tools
- R Python, Numpy, Pandas, Matplot, Sci Kit learn
- Maths (Matrices, Calculus, Linear Algebra, Probability) & statistical Techniques
- Advanced knowledge of Excel and Access (Arrays, VBA etc.)

Other skills needed

Un exemple d'offre d'emploi typée 'data scientist'

Des questions ?

Sinon on commence avec le TP1 sur numpy ! :)