

# HOUSSEM NOUIRA

Data Science Student @ESPRIT ♦ Rabat, Morocco

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## EDUCATION

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<b>INPT (National Institute of Posts and Telecommunications)</b> Exchange Semester Data, Web and Mobile Systems	<i>September 2019 - Present</i> Rabat, Morocco
<b>ESPRIT (Higher Private School of Engineering and Technologies)</b> Engineering Degree CS majoring in Data Science	<i>September 2015 - Present</i> Ariana, Tunisia

## EXPERIENCE

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<b>Software Factory Tunisia</b> <i>Intern</i>	August 2019 - September 2019 <i>Tunis, Tunisia</i>
· Reduced the number of outdated packaging pictures by implementing a tool to calculate similarity rate between images. OpenCV, Python, SkLearn, PHP, RestAPI, PostgreSQL.	
<b>PICXYZ Content Management</b> <i>Intern</i>	June 2019 - August 2019 <i>Le Mans, France</i>
· Improved the performance of PICXYZ typing operators by at least 30% by conceiving and implementing an Artificial Intelligence driven solution that extracts text from images. Tesseract OCR, Google Vision API, Python, OpenCV, Text Classification.	
<b>Mitakus Analytics</b> <i>Remote Intern</i>	January 2019 - May 2019 <i>Munich, Germany</i>
· Reduced food waste and food outage by implementing a solution that predicts the daily number of guests for two canteens of a Bavarian company. Python, R, LSTMs, Time-Series forecasting, Web Scraping.	

## TECHNICAL SKILLS

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<b>Programming Languages &amp; Frameworks</b> <i>Python(Flask,PlotlyDash,Bokeh), R, C, C++, Java, PHP, JavaScript(jQuery,VueJS)...</i>
<b>Data Science &amp; Mathematics</b> <i>Probability,Advanced Machine Learning(Numpy, Scipy, Pandas, Sklearn...),Deep Learning, Statistical Analysis, Data Visualisation, Data Engineering, Time Series Analysis, NLP ...</i>
<b>Big Data, Databases Management &amp; Business Intelligence</b> <i>SQLServer, Microsoft PowerBI, SSMS, SSIS, SSRS, TransactSQL, MySQL, Scala, PySpark, Pig, Hive, Spark, Hadoop, Oracle...</i>

## PROJECTS

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<b>NLP Project</b>	2019
· Scraped comments about Apple's 2016 new products from Twitter and Youtube. (Selenium, BeautifulSoup, 3rd-party APIs)	
· Applied Natural Language Processing techniques on the scraped data, to find out users overall polarity and the main strengths and weaknesses, as well as Graphs algorithms to detect the main influencers in the audience. (Python, TextBlob, Gephi, NetworkX).	

## PharmaPro

2019

- Conceived and implemented a Data Solution for a drugstore.
- Deep understanding of BI procedures and tools.
- Performed association rules algorithms on sales data in the aim of improving supplies management.
- Used technologies : SSMS, SSIS, SSRS, PowerBI, Python, R.

## Machine Learning Projects

2018

- A Machine Learning centered study of the national Tunisian airliner fleet, in order to find issues and feasible solutions (Clustering, Linear Regression).
- Reduced the cost of a mailing campaign for a newly established Caravan insurance policy for a Canadian insurance company, by building a customer scoring system (Linear Discriminant Analysis, Logistic Regression).
- Used technologies for the projects above: R, Python, Flask, Plotly Dash, PowerBI.

## AWARDS

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### Certificates

*NVidia Fundamentals of Deep Learning for Computer Vision, IBM Python for Data Science, IBM R 101*

### Problem Solving, Coding & AI Contests

*ACM TCPC, ACM ACPC, IEEEExtreme, Google HashCode, Google CodeJam, ENISO Instadeep AI Hackathon.*

## EXTRACURRICULAR ACTIVITY

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### Co-Founder & President at ACM Esprit

September 2018 - August 2019

- Provided coding (C, C++ and Java) and Algorithms training sessions to ESPRIT's students.
- Coached ESPRIT's team in the ESPRIT Collegiate Programming Contest and Tunisia Collegiate Programming Contest.
- Supervised and participated in the organisation of multiple events and hackathons (AI and Competitive Programming) throughout the academic year.