

Ferdaous Bouzaïene

Data Scientist

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EDUCATION

Higher School of Communication of Tunis (SUP'COM)	Tunis, Tunisia
<i>Engineering degree in Information and Communication Technologies - Data Science Specialization</i>	2017 – 2021
<ul style="list-style-type: none">Concentration in Artificial Intelligence, Machine Learning, and Data Structures.	
Faculty of Science of Monastir	Monastir, Tunisia
<i>Diploma of preparatory studies for engineering schools (rank: 98/700)</i>	2015 – 2017
<ul style="list-style-type: none">Concentration in calculus and linear algebra.	

WORK EXPERIENCE

Undergraduate Research Assistant	Strasbourg, France
<i>ICube Laboratory, University of Strasbourg</i>	May 2020 – Dec. 2020
<ul style="list-style-type: none">Studied and analyzed 4 medium-large remote sensing datasets (30k to 50k images per class) as well as preparing regular reports on the choice of classes and features.Implemented deep learning models to classify large unlabeled datasets using features learned from smaller labeled datasets, attaining 78% accurate results that were referenced in an ongoing research paper. (Domain Adaptation)Improved the accuracy by 3% by developing and documenting the model's architecture and the data pre-processing steps.	
Machine Learning Intern	Tunis, Tunisia
<i>SFM Technologies</i>	July 2019 – Sept. 2019
<ul style="list-style-type: none">Built a machine learning model to detect, evaluate and forecast the behavior of the company's clients to improve customer service and enhance business efficiency.Designed a data visualization dashboard to track the model's output and generate reports which subsequently boosted the project's intelligibility.	

ACADEMIC PROJECTS

Music Recommendation System
<ul style="list-style-type: none">Developed a recommendation engine using content-based recommendation approach to propose songs based on the user's taste.Applied the cosine similarity to measure similarity between lyrics to choose the most similar songs.
Fake News Detection: NLP Project
<ul style="list-style-type: none">Distinguished between fake and real news using TfidfVectorizer that obtained an accuracy of 92%.Wrote a data mining algorithm to extract data from Twitter and cleaned and prepared the dataset.
Analyzing IMDb Movie Reviews: Sentiment Analysis Project
<ul style="list-style-type: none">Created a model using neural networks to predict whether the movie reviews obtained from IMDB are positive or negative resulting in a 84% accuracy.
Customer Churn Prediction
<ul style="list-style-type: none">Worked on a model that predicts which customers are most likely to leave the company and identifies the reasons behind their departure, 81% accuracy achieved.Chose the features in the model using Lasso coefficient and applied a Logistic Regression classification algorithm .

TECHNICAL SKILLS

Programming Languages: Python, C++, SQL
Libraries/Frameworks: Pandas, NumPy, Scikit-Learn, Matplotlib, Tensorflow, Keras, OpenCV, Flask
Algorithms/Architectures: Logistic Regression, XGBoost, Random Forest, CNN, LSTM-RNN
Developer Tools/OS: Git/Github, Linux

LANGUAGES

Languages: English: Bilingual Proficiency	French: Bilingual Proficiency
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