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| Tetouan, Morocco | | |  |  | **BILAL FATIAN** |
| +212 672565630 | | |  |  | Fatian.Bilal@gmail.com |
| [LinkedIn](https://www.linkedin.com/in/bilal-fatian-806813254/) [GitHub](https://github.com/bilalfatian) |  |  |  |  |  |

[Portfolio](https://bilalfatian.me)

**PROFESSIONAL EXPERIENCE**

[**Office Chérifien des Phosphates (OCP group) –**](https://www.ocpgroup.ma/) *Data Science Intern* **–** *Safi, Morocco* *April 2024 – July 2024*

* Developed predictive maintenance models for turbine systems to forecast potential failures and mitigate downtime, resulting in increased operational uptime. This strategic approach significantly reduced downtime costs while optimizing maintenance expenditure.
* Developed an interactive Power BI dashboard, synthesizing data sets from various entities to provide invaluable insights, empowering streamlined decision-making processes throughout the organization.

**EDUCATION**

**[Mohammed VI Polytechnic University –](https://www.um6p.ma/sites/default/files/brochures/Programmes%20FI%202022/Brochure_ISTI_SD%200122.pdf)** *[Bachelor’s In Data Science](https://www.um6p.ma/sites/default/files/brochures/Programmes%20FI%202022/Brochure_ISTI_SD%200122.pdf)* **–** *Benguerir, Morocco*  *2021 – 2024*

[**LM6E –** *High School Diploma*](https://lm6e.ma/)**–** *Benguerir, Morocco* *2018 – 2021*

**PROJECTS**

[**Urban Sound Classification with CNN –––––––––**](https://github.com/bilalfatian/Urban-Sounds-Classifier)  *April 2024*

* Developed CNN models for sound event recognition utilizing the UrbanSound9K dataset.
* Implemented feature evaluation and preprocessing techniques, including MFCC and Log-MEL Spectrograms, along with data augmentation to enhance model performance and generalization, achieving a test accuracy of 95.01%.

[**Scraping jobs on LinkedIn & Indeed ––––––––––**](https://github.com/bilalfatian/Scraping-Jobs-on-LinkedIn-Indeed) *January 2024*

* Developed web scraping tool to extract job data from LinkedIn and Indeed, enhancing job search efficiency.
* Implemented recommendation algorithm to personalize job suggestions based on user preferences.

[**Handwritten Digit Recognition –––––––––––––––**](https://github.com/bilalfatian/Handwritten-Digit-Recognition)   *December 2023*

* Led the creation and comparison of three neural network models for recognizing handwritten digits using the MNIST dataset.
* Achieved significant accuracy improvements, with Model 3, a Convolutional Neural Network, showcasing remarkable accuracy of 98.99% and the lowest loss of 2.96.

[**Chicago Crime Data Analysis ––––––––––––––––**](https://github.com/bilalfatian/Chicago-Crime-Data-Analysis)   *October 2023*

* Analyzed Chicago crime data spanning 2001-2023, identifying prevalent crimes and peak crime year. Evaluated arrest success rates, offering insights into law enforcement efficacy.
* Developed interactive Power BI dashboard for intuitive exploration of crime data, enhancing accessibility and understanding.

[**Emergency Message Classifier –––––––––––––––**](https://github.com/bilalfatian/Emergency-message-classifier)   *June 2023*

* Developed an ETL & ML system alongside a user-friendly web app to classify emergency messages into 36 categories, utilizing multilabel NLP techniques.
* Achieved an accuracy of 95%, demonstrating robust model performance in identifying crucial emergency categories.

[**ReadWell ––––––––––––––––––––––––––––––––**](https://github.com/bilalfatian/ReadWell-net)   *April 2023*

* A web platform catering to book enthusiasts seeking seamless exploration and sharing of literary works. By facilitating easy account setup, intuitive book browsing, and interactive community engagement.

**TECHNICAL SKILLS**

**Programming Languages –––––––––––––––––––** Python, R, C, C++, Java, PHP, Javascript, Bash

**Data Science libraries ––––––––––––––––––––––** Pandas, Numpy, TensorFlow, Scikit-learn, Selenium, BeautifulSoup

**Data Visualization Tools/Libraries –––––––––––** Matplotlib, Seaborn, PowerBI

**DBMS –––––––––––––––––––––––––––––––––––** PostgreSQL, MySQL, SQLite, MongoDB

**Web Development –––––––––––––––––––––––––** Laravel, Symfony, Django, Flask, Bootstrap

**INTERESTS**

[Chess](https://www.chess.com/member/bilalfitian) – Swimming – Ping-Pong – Volunteering