BILAL FATIAN

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LinkedIn
GitHub
Portfolio

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PROFESSIONAL EXPERIENCE

Office Chérifien des Phosphates (OCP group) – *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 – *Bachelor's In Data Science – Benguerir, Morocco*   *2021 – 2024*
LM6E – *High School Diploma – Benguerir, Morocco*   *2018 – 2021*

PROJECTS

Urban Sound Classification with CNN ————————   *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 ————————   *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 ————————   *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 ————————   *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 ————————   *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 ————————————   *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
Languages ——————————————————— Arabic, English (6.5/9.0 in IELTS), French (C1 in TCF)

INTERESTS

Chess – Swimming – Ping-Pong – Volunteering