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