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BILAL FATIAN

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GitHub | Portfolio | LinkedIn



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

- Paris Cité university – Master in Machine Learning for Data Science – Paris, France** 2024 – 2026
- 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

LANGUAGE SKILLS

- Arabic** : Langue maternelle
- French** : Professional proficiency (C1 in TCF)
- English** : Professional proficiency (6,5 / 9 in l'IELTS)