Otmane El Bourki

Morocco • +212631142276 • otmane.elbourki@gmail.com • github.com/oelbourki • linkedin.com/in/oelbourki

EXPERIENCE

AI Engineer   Jun 2023 – Present
Tetricks   *Vincennes, France, (Remote from morocco)*
- Developed and deployed in-house solution for request classification, cutting costs by 47%.
- Optimized, fine-tuned, Quantized Language Models for Enhanced Performance, inference by up to 3X.
- Built an email parser API for guest request processing, automating data extraction from emails and reducing processing time by 60%.
- Created a RAG chat-app for quick and accurate resolution of guest inquiries, reducing response time by 50%.
- Employed vision LLM for automated hotel room and feature categorization, leading to a 40% increase in efficiency.

ML Engineer intern   Mar 2022 – Jun 2022
Ibn Tofaïl CS Department   *Kenitra, Morocco, Hybrid*
- Designed a facial expression recognition system using the FER2013 dataset, achieving an accuracy of 85%.
- Utilized SOTA computer vision models and evaluated their performance, achieving an average precision of 90%.
- Improved model performance by 20% through data augmentation, and regularization techniques etc.
- Incorporated the model into a desktop app, resulting in a 30% increase in user engagement and satisfaction.

EDUCATION

M.S. in Artificial Intelligence   Nov 2022 – Feb 2024
Ibn Tofaïl University   *Kenitra, Morocco*
- Relevant Courses: Machine Learning, Deep Learning, Reinforcement Learning, Natural Language Processing, Computer vision, Image processing, Mathematics for Artificial Intelligence, Parallel Programming.

B.S. in Mathematics and Computer Science   Oct 2020 – Jul 2022
Ibn Tofaïl University   *Kenitra, Morocco*
- Relevant Courses: Data Structures, Algorithms, Operating Systems, Computer Architecture, Databases, Compilers, Operation research, System Programming, Numerical Analysis, Linear Algebra, Networking.

Digital Technology Architect   Oct 2019 – Feb 2024
Mohammed VI Polytechnic University – Ecole 1337 – 42 network   *Benguerir, Morocco*
- Relevant skills: Algorithm Design , Problem Solving, Flexibility, Project Management, Teamwork, Optimization.

PROJECTS

Sadeeq AL-Siha | *LLM, UI, ChatApp, Meditron, Chainlit, Ollama, Qdrant*
- Designed a healthcare chatbot based on RAG style, offering disease identification and drug recommendations for patients and personalized treatment plans. Used Ollama for serving LLM and Qdrant as vector store.

Ads-LLM | *LLM, Llava, Supabase, Keybert, Vertex AI*
- Implemented a program for matching articles with ads, utilizing KeyBERT to pinpoint relevant article keywords and a custom LLAVA deployed on Vertex AI to extract ad-descriptive keywords. Ensured sensitivity and disallowed keyword compliance during the matching process while storing keywords efficiently on Supabase.

MarketAI | *LLM, CrewAI, Agents, OpenAI*
- Built an AI marketing team with automounts agent using CrewAI.

DoctorAI | *Mlflow, DVC, AWS*
- Led the end-to-end implementation of kidney disease classification project, utilizing modern software development methodologies and tools including GitHub, MLflow, DVC, Dockerization, and AWS CI/CD for seamless deployment and efficient workflow management.

SKILLS

Programming Languages & Frameworks: Python, Java, C, C++, SQL, PL/SQL, SQLite, PostgreSQL, TensorFlow, PyTorch, Keras, Scikit-learn, Django, Flask, FastAPI, Streamlit

Libraries & Tools: NumPy, Pandas, Matplotlib, Seaborn, NLTK, spaCy, OpenCV, Hugging Face, Langchain, Langsmith, BentoML, LlamaIndex, Autogen, CrewAI, Git, GitHub Actions, Docker, Kubernetes, Kubeflow, MLflow, DVC

Platforms & Big Data Technologies: AWS (SageMaker), GCP (BigQuery, AI Platform, Vertex AI), Supabase

Other: Machine Learning, Deep Learning, NLP, Computer Vision, Model Deployment, Data Engineering, A/B Testing, CI/CD, Agile

Spoken Languages: Arabic (Native), English (Full Professional Proficiency), French (Medium Proficiency)