Cherki Meziane

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PROFILE

Artificial Intelligence graduate with a BSc Honors degree at Anglia Ruskin University, with expertise in machine learning and deep learning, demonstrated through successful project delivery and research. Skilled in developing production-ready ML models with 15-40% performance improvements across various applications. **Proficient in Python, TensorFlow, and PyTorch, with experience in MLOps, AWS Cloud, and full-stack development**.

PROFESSIONAL EXPERIENCE

Machine Learning Research Intern, Anglia Ruskin University — 05/2022 – 08/2022 — Cambridge, UK
- Developed **ML models for disease detection** improving diagnostic **accuracy by 13%.**
- Created ETL pipelines processing 1TB+ of medical data while maintaining 99.9% data quality
- Collaborated with medical professionals to deploy models in a production environment

PROJECTS

Zaka Coach (Fitness App), AI Agent with frontier models for personalized workouts & meals — 06/2023 – present
- Developed an AI recommendation system with **Fine-tuned Frontier models (GPT, Cloud),** leveraging Reinforcement Learning from Human Feedback (RLHF) to achieve **85% user goal alignment.**
- Built a FastAPI backend dedicated to generating meal and workout plans and reports, deployed using AWS Lambda.
- **Developed a full-stack mobile app** using React Native and Expo, with NoSQL (Appwrite) for backend services.
- Designed and automated real-time data pipelines, enabling dynamic AI-driven adjustments to user programs.

GoFinance, Real-time financial analytics platform for investment decision-making — 10/2021 – 01/2022
- **Designed** a comprehensive financial analytics platform using **C#** and **MySQL**, enabling market data analysis.
- Applied **Agile** methodologies to manage project development, ensuring iterative progress & improvement.
- Implemented rigorous testing (unit and integration) for data pipelines and backend services to ensure system reliability and performance.
- Set up **CI/CD pipelines** to automate testing, deployment, and integration, improving development speed and reducing manual errors.

BioBERT Health Analytics Platform — 05/2023 – 07/2023
- **Fine-tuned BioBERT model**, achieving a **15% improvement** in prediction accuracy for health metrics.
- Utilized PyTorch for effective training and evaluation, handling a variety of datasets.
- Developed robust documentation and implemented a CI/CD pipeline for streamlined deployment and integration.

EDUCATION

BSc (Hons) Artificial Intelligence, Anglia Ruskin University — 01/2021 – 06/2024 — Cambridge, UK
- **Graduated with Honors,** top 10% of the class.
- Relevant Modules: Advanced Machine Learning, Deep Learning, Data Analytics, Natural Language Processing.

High School Diploma (Specialized in Construction and Environment), Luca Pacioli — 09/2014 – 08/2019 — Crema, Italy

SKILLS

Programming Languages
Python (Advanced), SQL, Java, C#, JavaScript, React Native

Machine Learning Frameworks
TensorFlow, PyTorch, scikit-learn, Keras

Data Science Tools
NumPy, pandas, Matplotlib, Streamlit

Software Development Tools
Visual Studio, Git, Docker

Methodologies
Object-Oriented Programming (OOP), Agile, Scrum

Soft Skills
Analytical Thinking, Creative Problem-Solving, Team Collaboration, Effective Communication

Automation Tools
Docker, AWS, CI/CD Pipelines, Ansible, Puppet (Familiar)

CERTIFICATES

- PCAP: Certified Associate in Python Programming
- AWS Certified Solutions Architect – Associate
- Kubernetes Fundamentals
- Ray Distributed Computing Fundamentals