Youssef Baccouche

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Date of Birth: 09/06/2002

ABOUT ME

I am an AI enthusiast with a profound curiosity for deep learning, always eager to explore new frontiers. My experience as an international tennis player has honed my ability to adapt, stay resilient, and continuously push myself. I enjoy tackling complex problems and creating innovative solutions that leave a lasting impact. Having lived in five culturally distinct countries, I bring a fresh, dynamic approach to global challenges.

PROGRAMMING SKILLS

- **Languages**: **Python, Java**, C#, SQL, Prolog, CSS, HTML, JavaScript
  Technologies: **PyTorch, Pandas**, TensorFlow, NLTK, Docker, Git, NumPy, SciPy, SpaCy, Sklearn, Unity

PROJECTS

- **Bachelor Thesis** Built a **Transformer** and **Perceiver**, Optimized them using weights and biases, examined/compared their architecture and performance in Autoregressive Modelling. **(Deep Learning) Grade: 8.0**
- **Generating Impact Stories** Building a **self-validating multi-agent system** that generates impact stories summarizing academic research papers to templates, to attract readers and attention towards academia.
- **Predicting stock price movements using genetic algorithms** Built a **genetic algorithm** that predicts the fluctuation of stock prices, **feature engineering** technical indicators.
- **Recruitment Recommender System** Built a **recommendation system** that helps the board in hiring decisions based on applicant profiles and job requirements.
- **Sous-Chef Agent** Built a **conversational agent** using Google's DialogFlow to develop patterns/understanding and act as a real-time sous-chef to the user.
- **Video Games Development** Built a 3D infinity runner game that incorporates complex game mechanics, and a 3D 3rd person shooter.

EDUCATION

- **MSc Data Science - University of Amsterdam** — Amsterdam, Netherlands
  Sep. 2024 – Sep. 2025
- Courses: Applied Machine Learning, Natural Language Processing, Statistics, Simulation & Optimization

- **BSc Artificial Intelligence - Vrije Universiteit Amsterdam** — Amsterdam, Netherlands
  Sep. 2020 – July 2024
- Courses: Machine Learning, Data Science, Data Structures & Algorithms, Multi-Agent Systems, Linear Algebra

- **BSc Artificial Intelligence (Exchange) - University of Kent** — Kent, United Kingdom
  Sep. 2022 – Jan. 2023
- Courses: Computational Intelligence, Computing Law, Video Game Development

EXPERIENCE

- **YB Tennis Coaching (Self-Employed)** — Amsterdam, Netherlands
  Tennis Coach — *Oct 2021 - Present*
  - Managing my personal tennis school. Prepared club teams for regional competition, and organized camps.
  - Coached over **400 adults and children** at two of the largest tennis academies in Amsterdam (Inspire, Higgins).

LANGUAGES

Native: English, French, Arabic (Classical, North-African, Gulf, Levantine)   **Elementary:** Dutch