Alessandro Alviani

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EDUCATION

MSc Data Science with Distinction : 83/100.   Sep 2021– Dec 2022
City University of London, London, UK.

BSc Economics (Hons): Mathematics: 27/30 | Statistics: 30/30 | Business Administration: 29/30.   Sep 2005 – Jul 2008
Università La Sapienza, Rome, Italy.

WORK EXPERIENCE

AI Data Scientist & Product Owner, Lumera UK, London.   May 2022 – Present

- Acted as both AI Engineer and Product Owner, leading the end-to-end **development** and **deployment** of **production-ready** AI solutions, including RAG, translation, scheduling, data anonymisation and customer support tools, which always delivered business value and cost savings in line with the **business and technical proposals** I authored.
- Led the automation of a complex end-to-end workflow using **AI agents** that interact with **databases, web services**, and even **GUI interfaces**, achieving a 40% reduction in manual workload.
- Successfully implemented a number of end-to-end RAG solutions, including an **agentic RAG** integrating a hybrid retrieval from **FAISS, BM25**, and a **Neo4j graph** which resulted in reducing the average time to answer insurance-specific questionnaires from 4 hours to just 30 minutes, an 87.5% improvement.
- Oversaw the **end-to-end lifecycle** of all our AI projects, from data collection and preprocessing, to model training and evaluation, to deployment and monitoring.
- **Delivered talks across** the UK and Europe, communicating AI advancements and business applications to both technical and non-technical audiences.

Data Scientist, DiscoverFilm, London.   Dec 2021 – May 2022

- Led the development of an **NLP**-based **recommender system** that prioritized ethical considerations, ensuring transparency and fairness, as well as optimally leveraging the limited data available.
Leveraged **UMAP** + **HDBSCAN** for **clustering** and **Folium** geovisualization to extract actionable insights into the business and its customer base, enhancing recommendation strategies through spatial context

General Manager, Nordic Balance, 4 St James's, London.   Jun 2017 – Aug 2021

- Enabled data-driven decision-making; crafted interactive dashboards with **Tableau** and used **Python** automation to track usage and membership **trend**.
- Led a diverse team of staff across operations, health and fitness specialists, and customer service, fostering a collaborative environment through clear **communication**, strategic direction, and hands-on **leadership**.

LANGUAGES / FRAMEWORKS

Python | SQL | PyTorch | TensorFlow | OpenCV | Scikit-learn |Pandas | NumPy | HuggingFace | Google ADK | OpenAI Agents SDK | vLLM | TGI | TensorRT-LLM | AWS | SkyPilot | FastAPI | Kubernetes | Docker | Prometheus |Graphana | AirFlow |MlFLow| MinIO| GitLab | GitHub | Linux | Windows | MacOS.

PROJECTS

I'd be glad to demo selected AI projects upon request during the interview to showcase their practical impact and technical depth.

AWARDS

- **First Prize - 2024 Nordic Software AI Hackathon, Stockholm**: Led AI development within a three-person team to build a custom ANN-powered scheduling assistant, and presented our award-winning solution to an audience of over 1,300 attendees.
- **"Best Internship Project of Year 2021-2022"**, City University of London, for developing a document processing solution that was successfully deployed to production.

PUBBLICATIONS

Contributed to the book "Foundations of Programming, Statistics and Machine Learning for Business Analytics" SAGE, 2023

REFERENCES

Available on request.