Daniele Vitale

PROFESSIONAL SUMMARY

I'm a passionate Cloud Solution Architect with over 12 years of experience across software engineering and data science. I lead complex, high-impact data and AI projects on Azure, Databricks, and Microsoft Fabric—designing scalable architectures, implementing end-to-end ML workflows, and driving innovation through hands-on leadership. I thrive on mentoring teams, empowering clients, and translating technical challenges into meaningful, business-driven solutions.

LANGUAGES

IT – Native

EN – Professional Proficiency

ADDRESS

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EXPERIENCE

MAY 2021 - CURRENT
Cloud Solution Architect | Microsoft Italia Srl. | Milan

My role as a Cloud Solution Architect involves a combination of technical expertise, project management, and effective communication, making significant contributions to the success of various projects and client engagements.

- **Project Management:** I manage and support various high-profile projects, ensuring smooth transitions and addressing technical challenges. For example, I have led the implementation of machine learning workflows on Azure, enhancing deployment strategies and CI/CD practices.

- **Technical Expertise:** I specialize in Microsoft Fabric, Azure Data Factory, and Azure Databricks, providing critical technical support and guidance to teams and clients, optimizing data structures, and improving query performance.

- **Collaboration and Communication:** I actively collaborate with team members and clients, facilitating meetings and discussions to align on project goals and address any issues.

- **Upskilling:** I provide training and upskilling on Azure technologies, including Microsoft Fabric, Azure Databricks, Azure Machine Learning, and Azure OpenAI, helping teams and clients stay updated with the latest advancements.

MAR 2019 – APR 2021
Big Data Engineer | ENI S.p.A. | Milan

- Designed and developed a **PySpark-based framework** to streamline the deployment of machine learning models built by the **Eni Data Science Team**.

- Re-engineered and migrated a **forecasting and optimization process** for **Eni Bolgiano's cogeneration plant** to the **Azure cloud**, enhancing both the **performance** and **maintainability** of the underlying algorithms.

DEC 2016 – FEB 2019
Software & Data Engineer | Doodle AG | Zurich

- Developed a robust data processing pipeline using **Apache Airflow**, **Hadoop**, and **Amazon Redshift**, supporting the company's data warehouse and enabling management to monitor key **doodle.com KPIs**.

- Contributed to the migration of **doodle.com** from an on-premises data center to a **Kubernetes-based cloud infrastructure** on **Amazon Web Services (AWS)**.

- Designed and implemented a **real-time spam classification system** using **Apache Kafka** and **Python's scikit-learn**, deployed in production and capable of blocking approximately **10,000 spam polls per day**.

- Led the **technical recruitment** of four backend engineers, helping to shape the **Doodle backend team**.

NOV 2012 – NOV 2016
Senior Software Developer | Tiscali S.p.A. | Pisa

- Designed and implemented real-time news clustering algorithms for the news aggregator of the Italian search engine **istella.it**.

- Developed a new search engine platform powering the official website of the Italian encyclopedia **Treccani (treccani.it)**.

- Built a custom search engine solution for **video.mediaset.it**, enhancing video content discovery.

- Designed and developed a real-time monitoring and visualization system for social media activity, used by **Mediaset** to track and analyze live discussions during the broadcast of various TV shows.

OTT 2011 – OTT 2012
Graduate Researcher | University of Pisa | Pisa

- Re-engineered **TAGME**, a Java-based entity linking annotator developed by the A3 Lab at the University of Pisa, optimizing it to manage ~1 million queries per year from academic institutions – all on commodity hardware and with zero downtime.

- Designed and implemented clustering and classification algorithms specifically tailored for **short text documents**.

- Served as a **teaching assistant** for courses in algorithms and programming.

EDUCATION

MAR 2008 – JUL 2011

Master's degree in computer science | University of Pisa

Final Grade: 110/110 with honors

SEP 2003 – FEB 2008

Bachelor's degree in computer science | University of Pisa

Final Grade: 110/110

TECHNICAL SKILLS

Azure Cloud	Generative Models	Python	Linux
Apache Spark	Information Retrieval	Java	Windows
Big Data Engineering	Machine Learning	C/C++	Databricks
SQL	Data Modeling	PowerBI	MS Fabric

PUBLICATIONS

Classification of Short Texts by Deploying Topical Annotations

34th European Conference on Information Retrieval (ECIR 2012) · Apr 3, 2012

Long range correlations between nucleotide triplets

6th International Symposium on Health Informatics and Bioinformatics (HIBIT 2011) · May 2, 2011