Alexandre Manai

alexandre@manai.fr | +41 78 244 52 27

INFORMATIONS

Date of Birth: 27.03.1998 Citizenship: French and German Address: Winterthur. Zürich GitHub: alexandremanai LinkedIn: alexandremanai

Date of Availability: as soon as possible

SKILLS

PROGRAMMING

Languages:

Python • Java • SQL • Bash

MacOS • Linux • Windows

Text Editors: VSCode • Vim Software:

Jupyter Notebook • Kafka Gitlab/Github (CI/CD) • Docker Kubernetes • Airflow • DVC

MLFLOW • Amazon Web Services

Databases:

MongoDB • PostGreSQL • DynamoDB Libraries:

NumPy • Pandas • Scikit-learn Matplotlib • PyTorch

COURSEWORK

UNDERGRADUATE

ETH Zürich:

Linear Algebra

Discrete Mathematics

Algorithms and Probability - 5/6

Analysis I / II

Systems Prog. and Computer Arch. Formal Methods and Functional Prog. Data Modelling and Databases - 5.25/6 Computer Networks Probability and Statistics

Visual Computing

Introduction to Machine Learning

ZHAW:

Höhere Mathematik für Informatiker I/II -5.5/6

Machine Learning and Data Mining - 6/6 Höhere Analysis und Numerik - 5.5/6 Artificial Intelligence I - 6/6 Information Engineering I/II - 5/6

LANGUAGES

Native:

French • German Proficient: English

EDUCATION

ZHAW ZURICH UNIVERSITY OF APPLIED SCIENCES

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Sep 2020 - Sep 2022 | Average 5.2/6 | Winterthur, Switzerland

ETH ZÜRICH

BACHELOR OF SCIENCE IN COMPUTER SCIENCE May 2016 - June 2020 | Zürich, Switzerland

EXPERIENCE

SYNTHETICUS AG | Machine Learning Engineer

Sep 2022 - Aug 2023 | Zürich, Switzerland

- Generating tabular **Synthetic Data** with State-of-the-art **Generative AI** models (GANs, Gaussian Copulas, Transformers, ...)
- Proposed and Implemented a ML Pipeline using Apache Airflow and DVC
- Contributed to the **DevOps** Devlopment with **Github Actions** and **Terraform**

ZHAW | TEACHING ASSISTANT

Jan 2022 - Sep 2022 | Zürich, Switzerland

- Assisting in Machine Learning and Data Mining Course lead by Dr. Wehrli
- Bringing my Expertise in Machine Learning to Students
- Responsible for answering all Questions and grading the labs

SYNORYS TECHNOLOGIES | Big Data Engineering Consultant

Jul 2020 - Sep 2022 | Paris, France

- Proposed and Implemented a Data Quality Pipeline which betters Quality Throughput greatly
- Working on a **Data Consistency** Task to unify all Datasets over multiple environments using Dataiku Data Science Studio
- Working with technologies such as Talend, Dataiku DSS, NoSQL DataBase MongoDB, GitLab CI/CD, Kafka, Docker and Kubernetes

PRO JECTS

SELF-DEVELOPMENT | PERSONAL

Apr 2023 - now | Data-/Machine Learning Engineer | Winterthur, Switzerland

- Idea: Collecting User data through Slack Surveys and exposing Insights discovered through Analysis and ML in a Dashboard
- Back-end: Amazon Web Services, AWS Cognito, AWS Lambda, AWS DynamoDB, AWS AppSync, GraphQL, Code Pipeline, Slack Application

RESEARCH BACHELOR THESIS | UNIVERSITY

Jan 2022 - Sep 2022 | Prof. Dr. Stadelmann | Winterthur, Switzerland

- Subject: Optimizing Neural Networks with Composite Pruning Strategies
- Grade: 6/6

RESEARCH PROJECT | STUDENT RESEARCHER

Jul 2021 - Dec 2021 | Prof. Dr. Cieliebak | Winterthur, Switzerland

- Enhanced their SpeechToText Engine Interscriber with an Evaluation Pipeline evaluating models on **Punctuation** and **Disfluency**.
- Actively conducting Research (Reading papers, Implementing papers, Testing models, Communicating our Research Findings and Integration in Real-Life Products) on State of the Art Language Models