

LIVIA ELLEN

🌐 [San Francisco, CA](#) ✉ lellen@usfca.edu 🔗 [Linkedin](#) 🐙 [Github](#) 🌐 liviaellen.com/portfolio

Machine Learning Engineer (6 YOE), experienced in ML infra, computer vision, LLM, and real-time deployment (GCP, Docker, Kubernetes, PyTorch), founded viral AR agency [filterqu](#) (5B+ impressions, 9M videos generated)

Experience

Machine Learning Engineer

San Francisco, CA

CarIQ Pay

Oct 2024 - Present

- **Forecasted fleet payment activity** using historical transaction & vehicle telematics data, end-to-end MLOps workflow with Docker for scalable model deployment & monitoring, 95% model uptime via GCP Cloud Run with CI/CD rollback.
- **Collaborated with product/data teams** to align model output with KPI dashboard for fleet managers by enhancing time-based features and vehicle telematics signals on 43K vehicles & 271 fleets, as a grad student intern.

Data Scientist, Lead Instructor & Manager

Paris, France

Le Wagon for Business

Apr 2022 - Aug 2024

- **Developed training material** and maintained Github content for data training serving 20K students globally.
- **Taught and managed** data science, data analytics, and AI training for corporate & government clients for 500+ students across APAC, Europe, America, and MENA with avg. NPS of 89, launching 30+ data & AI product.

Data Scientist

Jakarta, Indonesia

SLB (Schlumberger), the largest oilfield service company

Dec 2020 - Mar 2022

- **Built data pipelines and trained regression ML model** to automate well screening for Pertamina (largest oil company in Indonesia) on Dataiku, reducing review time by 90% & boosting ROI by 17% for the next 5 years.
- **Developed NLP pipelines** to convert unstructured engineering reports into structured tabular data, reducing data review time from two weeks to five minutes across **400 oil & gas reservoirs** in the Attaka Field (**99% faster**).

Founder, AR Developer

Jakarta, Indonesia

filterqu AR Agency (sunsetting after platform support ended)

Jun 2019 - May 2023

- **Founded and scaled an AR software agency** delivering 150+ branded effects for Fortune 500 clients, generating 9M UGC videos and 5B+ impressions through AR app with face and object detection experiences; liviaellen.com/ar-profile
- **Lead Meta 2023 #MonthOfGood Ramadhan Global campaign** with an immersive AR game; 5.5 M impressions.
- Education & outreach in partnership with Meta: Designed and launched [Spark AR course](#) in Facebook Blueprint.

Projects & Publications

Co-author - Published a paper at the SPE APAC Oil & Gas Conference - 2022

- Well Portfolio Optimization, Accelerating Generation of Well Intervention Candidates with Automated Analytics and Machine Learning (DOI: doi.org/10.2118/210614-MS), reducing review time by 90% & increased 5-year ROI by 17%.

Sales Emotion & Engagement Analyzer for Meeting Recordings ([Github repo](#))

- Built a deep learning system to analyze emotion and engagement in sales calls using PyTorch and OpenCV, achieving 79% accuracy on a holdout set — outperforming baseline models by 8% on the FER-2013 dataset (38K images).

Data Ingestion & Analytics Automation – Michelin Restaurants ([Dashboard link](#))

- Built an automated data pipeline using MongoDB, Airflow, and BigQuery to ingest, clean, and transform global Michelin restaurant listings (6K+ entries across 35 countries), enabling weekly dashboard refreshes and self-serve analytics via Looker — reducing manual data updates by 95%.

Tech Content Writer & Contributor

- Contributor for online tech publications & newsletters [Towards Data Science](#) (660K followers), [Code like a Girl](#) (57K followers), and [Python in Plain English](#) (3.5M+ monthly reads). Writings: [Deploy Your APIs Effortlessly with FastAPI, Docker, and Google Cloud Run](#) [How Would I Learn to Code with ChatGPT if I Had to Start Again?](#)

Technical Skills

Languages: Python (Pandas, NumPy, CuPy, Scikit-learn, PyTorch, TensorFlow, FastAPI), SQL, R, Bash

Tools: Docker, Airflow, Git, dbt, Google Cloud Platform (BigQuery, Cloud Run, GKE), Snowflake, PowerBI, Tableau

Education

University of San Francisco

M.S. in Data Science

San Francisco, CA

Jul 2024 - Jun 2025

Universitas Indonesia

B.Eng. in Computer Engineering

Depok, Indonesia

Aug 2016 - Jun 2020



Livia Ellen Portfolio

About Ellen

AI & AR Consultant

Data Scientist with 6 Years of Experience

Are you looking for a consultant with experience in machine learning, statistical analysis, augmented reality, and data visualization? Look no further! With 6 years of experience in the field, I am confident in my ability to help your team make data-driven decisions and uncover valuable insights.

Ready to work together?

Contact Me

Resume

Book a Call

liviaellen.com

Github

LinkedIn

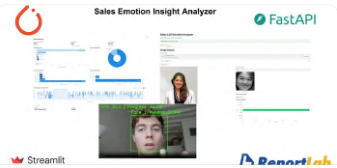


Projects

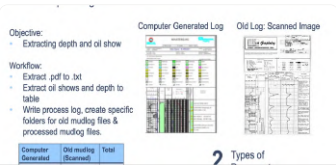
Please select a project category from the list below to view more details.
To learn about a certain project, simply click the card to open.

Portfolio

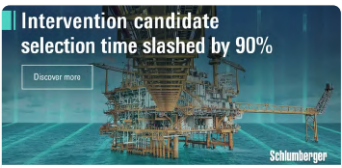
All Machine Learning Automation Data Viz Data Analytics API Development Table



Sales Call Emotion Insight AI Analyzer
Develop an automated text extraction & graph extraction tool to process sales call transcripts.
Data Science Data Visualization Machine Learning



Text Extraction on Drilling Data
Develop an automated text extraction & graph extraction tool to process drilling data.
Data Science Computer Vision Automation API Machine Learning



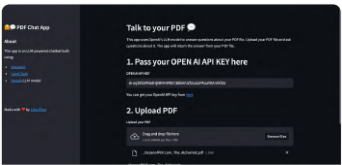
Well Production Optimization
Well Production Optimization for Oil Company
Data Science Machine Learning



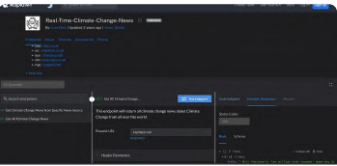
PowerBI Energy Consumption Dashboard
Tableau, PowerBI, Looker, or Spotfire Dashboard for website analytics
Data Analytics Data Visualization



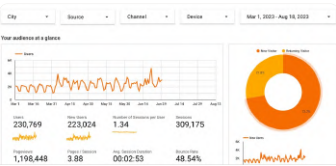
Vehicle Damage Detection
Develop an automated vehicle damage detection system that can identify damage on vehicles.
Data Science Computer Vision Automation API Machine Learning



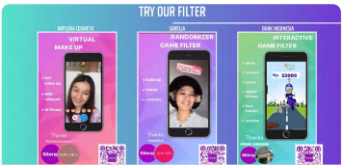
Ask My PDF - GPT Based App
This app uses OpenAI's LLM model to answer questions about your PDF documents.
Data Science GPT NLP API Machine Learning



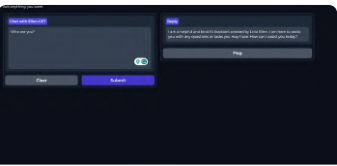
Climate Change News API
A Freemium API Service pulling all real time Climate Change News around the world.
API Web Scraping



Looker Website Analytics Dashboard
Tableau, PowerBI, Looker, or Spotfire Dashboard for website analytics
Data Analytics Data Visualization



Augmented Reality Experience for Brands
Tableau, PowerBI, Looker, or Spotfire Dashboard for e-commerce.
Augmented Reality Game Development Marketing Machine Learning



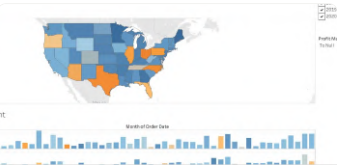
Ellen AI Assistant
AI based GPT assistant to answer any questions, served as an API and a web application.
Data Science GPT NLP API Machine Learning



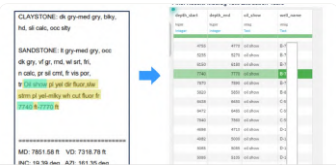
Stock Data Pipeline for JS Holding
Build a Data Pipeline and automating data flow for wealth management.
Data Science API Data Analytics Automation



Selenium Automation, Zapier Integration
Setup an automation pipeline and zapier integration for data collection.
API Data Analytics Automation



E-commerce PowerBI Sales Dashboard
Tableau, PowerBI, Looker, or Spotfire Dashboard for e-commerce.
Data Analytics Data Visualization



PDF Text Extraction for Drilling Data
Automated Workflow for Processing PDF Files into Structured Data
NLP Data Science Data Visualization



Student Engagement Detector on E-learning
An engagement detector detecting student eye gaze and facial expression.
Data Science Machine Learning Computer Vision

Client Testimonials

"We had a job that required a wide breadth of technical knowledge and Livia was able to provide her expertise and help us complete this job. She is extremely technical and knowledgeable and we will be working again on future projects.
Very strong candidate!"
- Javier

"Livia Ellen is truly brilliant and really efficient. She really knows how to attack problem sets and make them easily understandable to non-technical people like myself."
- Joy

"Livia was great to work with. Responsive, skilled, efficient, delivers high quality work. Highly recommended."
- Robert B.