Livia Ellen

San Francisco, CA | lellen@usfca.edu | Linkedin | Github | liviaellen.com/portfolio

Machine Learning Engineer (6 YOE), experienced in LLM systems, ML infrastructure; published researcher in LLM, scalable data systems, and applied machine learning, with technical writing blogs reaching 2M+ reads.

Experience

AI Engineer - Growth — **San Francisco, CA**
Mem0 (YC S24) — *March 2026 - Present*

- **Built AI-powered growth and multi-channel automation pipelines** contributing to a **2.7× increase in daily open-source installs** and supporting growth from **49K to 59K GitHub stars in 3 months**.
- **Run developer education, product launches, research communication and community activations, Launched *In Context***, Mem0's developer-focused publication for AI memory research and product launches; grew it from 0 to **5,011 subscribers in one month** while driving **125K+ weekly X impressions**.

AI Engineer & Research (Project-Based) — **San Francisco, CA**
Stealth (YC-Backed & Enterprise) — *Sept 2025 - Feb 2026*

- **Delivered production AI systems**, including a LangGraph backend and B2B content-generation platform for a YC-backed startup, TBench ML coding-agent pipelines, and enterprise AI marketing workflows for NEOGOV.
- **Co-authored 2 AI & data engineering research papers**, received the **Best Speaker Award IEEE ICBDA**.

Machine Learning Engineer — **San Francisco, CA**
CarIQ Pay (now acq. by Element) — *Oct 2024 - Jun 2025*

- **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, co-op grad student program.

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, reducing data review time from two weeks to five minutes across **400 oil & gas reservoirs** in the Attaka Field.

Founder, AR Developer — **Jakarta, Indonesia**
filterqu AR Agency (sunsetted 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.

Research & Publications

First Author - IEEE International Conference on Big Data Analytics 2026, Tokyo, Japan

- *Optimizing Data Science Workflows through Scalable Data Engineering Pipelines: A Case Study on Michelin Star Analysis.* Built a MongoDB, Airflow, and BigQuery pipeline analyzing 6K+ restaurants across 35 countries. Dashboard

Co-author - SPE Asia Pacific Oil & Gas Conference 2022, Adelaide, Australia

- *Well Portfolio Optimization: Accelerating Generation of Well Intervention Candidates with Automated Analytics and Machine Learning.* Reduced review time by 90% and increased projected 5-year ROI by 17%. DOI: 10.2118/210614-MS

Technical Writer & Contributor

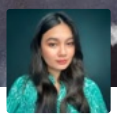
- Published technical articles in Towards Data Science (660K followers), Mem0 In Context, Code Like a Girl (67K), and Python in Plain English, covering machine learning, data science, and AI. (more writing)

Technical Skills

Languages: Python (Pandas, NumPy, CuPy, Scikit-learn, PyTorch, TensorFlow, HuggingFace FastAPI), SQL, R, Bash
Tools: Docker, Airflow, Git, dbt, Google Cloud Platform (BigQuery, Cloud Run, GKE), Snowflake, PowerBI, Tableau

Education

University of San Francisco — **San Francisco, CA**
M.S. in Data Science — *Jul 2024 – Jun 2025*
Universitas Indonesia — **Depok, Indonesia**
B.Eng. in Computer Engineering — *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

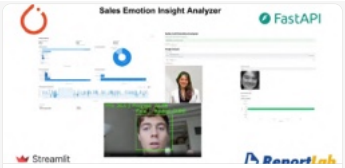
Projects

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

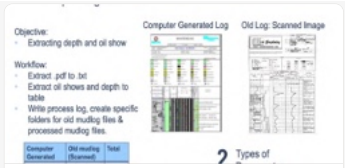
All | Machine Learning | Automation | Data Viz | Data Analytics | API Development | Table



Sales Call Emotion Insight AI Analyzer

A deep learning-based application for analyzing emotions and engage

Data Science | Data Visualization | Machine Learning



Text Extraction on Drilling Data

Develop an automated text extraction & graph extraction tool to proce

Data Science | Computer Vision | Automation | API | Machine Le



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

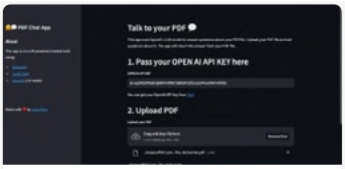
Data Analytics | Data Visualization



Vehicle Damage Detection

Develop an automated vehicle damage detection system that can ider

Data Science | Computer Vision | Automation | API | Machine Le



Ask My PDF - GPT Based App

This app uses OpenAI's LLM model to answer questions about your P

Data Science | GPT | NLP | API | Machine Learning



Climate Change News API

A Freemium API Service pulling all real time Climate Change News aro

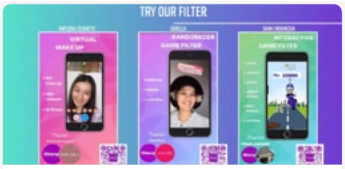
API | Web Scraping



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 L



Ellen AI Assistant

AI based GPT assistant to answer any questions, served as an API and

Data Science | GPT | NLP | API | Machine Learning



Stock Data Pipeline for JS Holding

Build a Data Pipeline and automating data flow for wealth managemer

Data Science | API | Data Analytics | Automation



Selenium Automation, Zapier Integration

Setup an automation pipeline and zapier integration

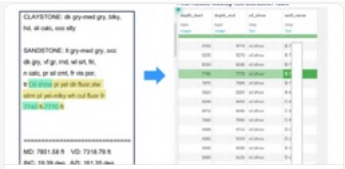
API | Data Analytics | Automation



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 expres

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.