Samson Raymond

The Netherlands samsonraymond63@yahoo.com +31-6-23265203

SUMMARY

I am an AI/ML Engineer with a strong foundation in cloud, data science, and data engineering. I am seeking engineering and consulting positions where I can apply my expertise in cloud and data to design, develop, and deploy scalable and efficient solutions. I am driven by the challenge of transforming concepts into operational systems and motivated to tackle, solve, and optimise meaningful problems that create measurable, impactful value.

EXPERIENCE

Cymo B.V
The Netherlands

AI/ML Engineer
August 2024 - Present

- Developed and Engineered deep learning models for endoscopy devices boosting precision by 20% and reducing false alarms by 10%
- Investigated, coordinated, and facilitated the research the integration of generative AI for Medical Edge devices.
- Devised, tested, documented, deployed and maintained AI model integration pipelines on Medical Edge devices.
- Conducted and managed meetings and briefings for product development.

Tata Steel
The Netherlands

Research and Development R&D Intern - AI/ML Focused
September 2024 - March 2025

- Designed and implemented a predictive maintenance system to assess printed coil legibility on hot-strip coils.
- Applied deep learning and computer vision techniques pipelines which increased and improved accuracy to 25% and this led to reduction and cutting of manual verification time by 40%.
- Deployed and migrated the system on Azure, built ETL data-pipelines rather than on local PC for scalability and reproducibility..
- Delivered and presented technical findings to the R&D department, and consulted with stakeholders on how to use the system in production with a clarified technical requirement.

Scania
The Netherlands

Logistics Technician
June 2023 - August 2024

Scania is a manufacturer of heavy trucks and buses as well as industrial and marine engines.

- Administered Oracle database system to control orders, optimise inventory, and reduce stock errors by 15%, classified and documented workflows, trained and guided colleagues.
- Implemented comprehensive safety protocols and established standardized procedures, reducing workplace incidents and enhancing overall operational safety.

EDUCATION

Masters in Smart Systems Engineering
The Netherlands

Hanze University of Applied sciences
2023-2025

- Relevant Courses completed: Applied Machine Learning, Digital Twin (IoT), Robotics, Product Design, Sensor Application Specialization, Sustainable Research Skills, Data Centric Architecture, Data Fusion Architecture, Professional Skills and Contributions.

Bachelors in Oil and Gas Engineering and Technology
Ukraine

Ivano-Frankivsk National Technical University of Oil and Gas
2018-2022

- Relevant Courses completed: Geology, Industrial Geophysics , Well testing and Survey, Informatics and Programming, Offshore Oil and Gas Technology, Electrical Engineering.

SKILLS

Programming Language: Python, Bash, SQL.
Machine Learning: SVM, Linear Regression, Logistic Regression, Clustering, Decision Trees.
Deep Learning: TensorFlow, Keras and PyTorch, Tesseract, EasyOCR, OpenCV, YOLO.
NLP: Transformers, HuggingFace, BERT, SpaCy, NLTK, OpenAI, Ollama, LangChain, RAG, BeautifulSoup, Selenium.
Data Analysis: Panda, Numpy, Matplotlib, Seaborn, Sci-ki Learn, SciPy, ELT, ETL, Pyspark, Hadoop.
Cloud: AWS, Azure, GCP.
Databases: Pinecone, Airtable, MySQL.
Devops : Git, Docker, CI/CD, Github Actions.
OS: Linux, Windows, Mac.
Spoken Languages: English (Native), Dutch (A2 level), Ukrainian (A2 level).

CERTIFICATIONS

Python Certification
Udemy • 2024

Optical Character Recognition (OCR) in python
Udemy • 2024

Python for Computer Vision with OpenCV and Deep Learning
Udemy • 2024

PROJECTS

Computer Vision and Deep Learning
Tata Steel

- *Tools: YOLO, OpenCV, Python, Roboflow, Azure, RoboFlow, Github, Docker.*
- Built a computer vision pipeline for real time coil print defect detection achieving 99.5% validation accuracy.
- Managed full pipeline: dataset creation, annotation, training, and evaluation using Roboflow and custom tools.
- Deployed model for real-time inference with Python and OpenCV and logged all data inputs.

Cloud Computing

- *Tools: AWS ECS Fargate, ALB, Amazon CloudWatch, IAM, ECR, Docker, Security Groups.*
- Built and containerized the website frontend and pushed the image to Amazon ECR.
- Deployed the application to ECS Fargate with ALB routing and IAM permissions.
- Simulated deployment issues and used CloudWatch logs to identify container and network errors.
- Resolved ALB and security group misconfigurations to restore full application functionality which saved 10% of resource cost.

NLP Projects
Personal Project- AI/ML

- *Tools: Flowise, LangChain, Llama, Mistral, Deepseek API, Vector Databases, Markdown, Google Drive, Google Colab.*
- Built a RAG chatbot using vector embeddings for document-aware Q&A from local and cloud data.
- Synced Google Drive with vector DBs, improving retrieval accuracy by 30% through tuned chunking.
- Integrated Deepseek, Llama, and Mistral via API for faster inference and better response control..

REFERENCES

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