

Varun Donadi

AI Software Engineer | Generative AI Engineer

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Innovative and impact-driven **Software Developer** with a strong foundation in **AI product development**, **data science**, and **cloud-native applications**. Experienced in transforming complex datasets into scalable, real-time solutions using **machine learning**, **NLP**, and **generative AI**. Proven track record of streamlining operations and elevating user experiences through automation and intelligent systems. Adept at driving innovation in cross-functional teams and committed to contributing to forward-thinking, mission-driven companies.

CORE COMPETENCIES & TECHNICAL SKILLS

Programming: Python, SQL, Bash, Git, FastAPI, JavaScript (basic)

AI/ML Tools: TensorFlow, PyTorch, Scikit-learn, Vertex AI, OpenAI APIs, Langchain

Cloud & DevOps: Google Cloud Platform (BigQuery, Vertex AI), Docker, Linux, Terraform, Github Actions

Data Science: NLP, Deep Learning, Computer Vision, Anomaly Detection, Predictive Analytics

Tools: Jira, Confluence, VS Code, Tableau (basic), Google Colab

Soft Skills: Problem Solving | Agile Collaboration | Communication | Critical Thinking | Ownership

WORK EXPERIENCE

Software Developer | Bauhaus, Germany

Sept'2022 – Present

- Built a **deep learning-based product matching engine** on **Vertex AI**, reducing **manual classification** by **90%** and boosting **operational efficiency**.
- Deployed **NLP pipelines** to automate **attribute matching**, cutting **comparison time by 50%** and enhancing **data accuracy**.
- Integrated **LLMs** to auto-generate **multilingual product content** and **image captions**, improving **global reach** and ensuring **accessibility compliance** with **EU regulations**.
- Used **LLMs** to extract **specifications and accessories** from **manufacturer PDFs**, enriching product data and driving **better recommendations**.
- Applied **RAG (Retrieval-Augmented Generation)** to improve access to **product and service documents** for **thousands of store managers**, enhancing **knowledge accessibility**.
- Developed an **AI-powered color detection tool** and **real-time API monitoring dashboards**, improving **search precision by 30%** and supporting **data-driven decision-making**.

Data Science Work-student & Thesis Researcher | Synsor.ai, Munich

May'2021 – Jun'2022

- Designed and fine-tuned anomaly detection models, achieving up to **98% detection accuracy** on datasets.
- Built a background-removal service for image preprocessing, improving downstream detection model performance by **30%**.
- Contributed to research initiatives focused on deep learning model deployment and monitoring, helping the team transition models to production.

KEY PROJECTS

● Multilingual AI Content Generator

Built a service leveraging transformer-based models (LLMs) to generate product descriptions across languages, reducing content development cycle by 70%.

● Intelligent Anomaly Detector

Developed a deep learning-based pipeline for anomaly detection in industrial datasets; improved fault detection rates and reduced manual validation needs.

● ML-Based Crowd Simulation Model

Designed simulation environments using ML to model human behavior in constrained spaces for safety, logistics, and planning.

EDUCATION & CERTIFICATES

Masters in Computer Science | Technical University of Munich (TUM)

2022

Focus Areas: Deep Learning, Natural Language Processing, Data Mining

Bachelor of Engineering (BE Hons) Computer Science | Birla Institute of Technology and Science, Pilani

2018

Key Subjects: Software Engineering, Data Structures, Algorithms, Logic Design

Generative AI with Large Language Models (DeepLearning.AI) | Coursera