



München, DE | <https://anilkul98.github.io>

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ANIL KUL



Dedicated AI/Software Engineer with a proven track record in developing cutting-edge solutions across multiple domains. Leveraging a strong background in machine learning, software engineering, and data engineering, I aspire to contribute my skills and expertise towards creating AI-driven applications that address complex challenges. Eager to innovate and deliver high-quality, scalable solutions. I am seeking opportunities to collaborate with dynamic teams in an environment that encourages creativity and continuous learning.

EXPERIENCE

AI / SOFTWARE ENGINEER

SAP SE | Munich, Germany

03.2022 – PRESENT

- Multi-agent conversation bot is implemented to chat with organizational databases.
 - Development and maintenance of RAG applications, and implementation of data loaders for VectorDBs.
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ML ENGINEER - WORKING STUDENT

Avantgarde | Munich, Germany

11.2021 – 03.2022

- Online facial expression from camera input. Age, gender, and emotion detection models are trained, optimized, and deployed. Different models and datasets are tested and compared to achieve an optimal combination.
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ML ENGINEER

Dcipher Analytics | Istanbul, Turkey

03.2021 – 11.2021

All projects are implemented from scratch including data cleaning, training, and testing.

- Biodiversity Detection From Satellite Images: The project aims to detect high biodiversity areas from satellite images that are taken from Sentinel2 API. A segmentation model trained on satellite images is delivered.
 - Acute Otitis Media Diagnose: The otoscope videos are used for training. Worked with Autoencoders and clustering for frame selection from videos. The final product is a video classifier for disease diagnosis.
 - Tooth Decay Diagnose: The bitewing X-rays have been used for training. Decayed teeth and the areas are determined with the help of DL classifiers and class activation maps. A basic UI application is delivered which makes it possible to upload X-rays and get the diagnosis about all teeth in the X-rays.
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EDUCATION

TECHNICAL UNIVERSITY OF MUNICH - GERMANY

MS in Computer Science, Major in Software Engineer, Minors: ML, Computer Vision

Graduation: October 2023, GPA: 1.9 (German System, 3.1 in American System)

KOC UNIVERSITY - ISTANBUL, TURKEY

BS in Computer Engineering

Graduation: Dec 2020, GPA: 3.31 / 4.0

BA in Business Administration

Graduation: June 2021, GPA: 3.31 / 4.0

PROJECTS

- Text Guided 3D Shape Manipulation: It is a GAN application. Pre-trained DeepSDF model is used as a generative model. With the help of the Clip model the textual feedback is gathered and with latent code manipulation target 3D shape is generated. [GitHub Link](#)
 - Multiple Object Tracking: Pre-trained FastRCNN is used for human detection and GNNs are trained for the tracking. The MOT16 dataset is used for implementation. [GitHub Link](#)
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SKILLS

- Generative AI: Langchain, OpenAI APIs, Multi-agent chatbots, Pydantic, Hugging Face model fine-tuning
 - Machine Learning: PyTorch, TensorFlow
 - Data Engineering: PySpark, Databricks, Pandas, SQL
 - Software: Python, Java, JavaScript, React, FastAPI, Flask, Spring Boot,
 - Deployment & Orchestration: Docker, Kubernetes, Databricks Workflows
 - CI CD: Git, GitHub, Jenkins
 - Cloud Technologies: AWS: Lambda, Sagemaker, EC2, S3, DynamoDB. GCP: Cloud Storage, BigQuery, Cloud Run, Firestore.
 - Project Management Tools: Jira, Notion, Confluence, Trello
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