Frederik Gram Kortegaard

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Professional Profile

I am a creative developer with a passion for optimization and visualization of information. I function best in teams and focus on continuing to better myself and my colleagues through constructive communication.

Skills

Programming languages:

C/C++, Python (8 yrs),
Java, Javascript,
PHP, Golang,
Lua, C#.

Systems / Tools:

Unix/Linux, Windows, Git,
Docker, Kubernetes, Elastic,
SQL, AWS, Kibana, REST.

Expertise:

Machine Learning Algorithms

Natural Language Processing

Quantitative Data Analysis

Computer Vision Algorithms

Deep Learning and Framework Engineering

Data Science specifics:

NumPy, SciPy, Pandas, SpaCy, PyTorch,
OpenCV, Prodigy, NLTK, Scikit-Image,
TensorFlow, Scikit-Learn, MatPlotLib.

Work Experience

Universal Robots

- Data Analyst **(***Machine Learning***)** (February 2020 - Current)

At Universal Robotics, I am employed as a student worker doing data analysis and machine learning to gain insight into both mitigation and the causation of possible operational faults in collaborative robots.

Findwise AB

- Junior Consultant **(***Machine Learning***)** (January 2019 - February 2020)

At Findwise I created and implemented Machine Learning and Natural Language Processing based services into a pre-existing data analysis pipeline using REST architectures, serving primarily as a part of our GDPR-compliance product chain.

In connection to this, I built and trained numerous Neural Networks using the SpaCy and Prodigy libraries and further designed Computer Vision algorithms and techniques to find and extract relevant metadata from various non-trivial file types. From this, I expanded my knowledge base not only in regards to the workflow and process of enterprise development, but also scalable and maintainable architecture and the tools thereto.

Personal Projects

Automated Stock Trading and Analysis Platform

- Developed a time series analysis tool for matching patterns and assessing similarity of datasets over different value- and timeframes using Dynamic Time Warping (abbr. DTW)
- Used sentiment analysis to create correlation statistics for stocks
- Created secure functions to handle automatic online transactions of multiple currencies across different platforms

Descriptive Image Search Engine

- Created a search engine that allowed users to search a given database of images by describing the images using conversational language.
- Developed a mixture of Computer vision and Machine learning based analysis tools to detect and recognize objects in images
- Utilized natural language processing technologies to create and optimize dynamic search features on the platform
- Built a modular backend platform that could be seamlessly integrated into frontend image galleries.

Social Media Automation, Growth and Sentiment Analysis.

- Automated social media content creation and publishing using a self-developed Python based platform
- Developed a custom API to interface with large scale social media sites
- Grew a social media profiles follower base by 457% over a four day period using said software
- Setup data pipelines using relevant APIs to automatically gather, clean and format large datasets with Python
- Implemented the Python Natural Language Processing Toolkit (NLTK) to automate dynamic sentiment analysis of keywords to hyper personalize and improve rating of published content

Education

University of Southern Denmark, Odense. (2019 - Current)

- Bachelor of Computer Science, B.Sc. CS, (Datalogi)

VUC Syd, Haderslev . (2017 - 2019)

- A - level Mathematics, Biology and Chemistry.