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, C#,
Rust, Lua.

Systems / Tools:

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

Data Science specifics:

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

Expertise:

Machine Learning Algorithms

Natural Language Processing

Quantitative Data Analysis

Computer Vision Algorithms

Data Mining and Visualization Tools

Deep Learning and Framework Engineering

***Languages*:**

Natively fluent in both Danish and English.

***Interests*:**

Statistics, Psychology, Cooking and Classical Rock

Work Experience

Findwise AB

- **Junior Consultant** (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.

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 / Volunteering

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 only by describing the images using conversational language and sentence construction
- 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

Teaching

- Taught multiple “Python 101” and “Introduction to Computer Science” classes during my education at 10. Ved Kløften

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.

EUC Syd, Higher Technical Exam, Haderslev. (2015 - 2017)

- Communication / Information Technology