Ken Riippa

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Education

Bachelor of Science, Information Networks September 2017 - June 2021
Aalto University, Espoo

- **GPA 4.35/5.00** and **ECTS 95/180**. Changed my major to Information Networks (the 2017-2018 Semester). Didn't attend the 2018-2019 semester because of compulsory military service.
- A transdisciplinary study programme in engineering combining computer science, digital media, and management with a societal perspective. Minoring in Computer Science.
- **Relevant coursework**: Programming in Scala, An Introduction to Statistics and Probability, Programming Project, Basics of Industrial Engineering and Management.

Work experience

Research Assistant in Machine Learning September 2018 - July 2019
National Defence University, Helsinki

- **Sentiment Analysis**: Researched on natural language processing models for the Finnish language. Developed a text analysis program that detects either a customer review is positive or negative with pre-trained polarity lexicon.
- **Computer Vision**: Applied deep learning models to recognize different kind of vehicles from images with 85% accuracy. Developed a high accuracy neural network model with publicly available libraries and data. Created the dataset from scratch by using images from Google, Yandex and Flickr.
- Technologies used: Python, Excel, Pandas, Scikit-learn, TensorFlow, Keras, IPython

Personal Projects

Tweet.ai

- This web application analyses the last 1000 tweets of the searched topic with a machine learning model in few seconds. Tweets can be either negative, neutral or positive(Sentimental analysis).
- Twitter has been a social platform for conversation. I thought it is interesting to monitor public opinion on different topics on Twitter. Furthermore, this was a superb opportunity to learn more about web development, data science and visualization.
- Technologies used: Python, Pandas, Scikit-learn, Flask, CSS, HTML, Javascript, Heroku

Digit Recognizer, Kaggle Competition

- Build CNN neural network model for recognizing handwritten digits(0-9). In this project, I wanted to learn the basics of deep learning and computer vision. My model accuracy was 97%.
- Technologies used: Python, Numpy, Pandas, Scikit-learn, Tensorflow

Technical skills

Languages & Software: Python, Scala, CSS, HTML, Visual Studio, Excel, Git, Jupyter notebook

Publications

Vankka J, Myllykoski H, Peltonen T, Riippa K. "Sentiment Analysis of Finnish Customer Reviews" *IEEE ANLP 2019*

Extra-Curricular Activities and Volunteering

Head of Academic Affairs, Guild of Information Networks Athene
Team member, Construction, Junction Hackathon 2019
Team member, Sustainability, Slush 2017
Responsible for Corporate Relations, Automation Technology (AS) Guild's History Committee

- Raised thousands of euros from companies for the 20th Anniversary of AS Guild.

Languages

Finnish(Native), English(Proficient), Japanese(Basics)