

Yun Luk Liu

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Education

KTH Royal Institute of Technology	Stockholm, Sweden
Master of Science in Machine Learning	2022 – 2024
Bachelor of Science in Electrical Engineering	2019 – 2022
University of Texas at Austin	Austin, USA
Exchange studies – Computer Science Major	Jan 2023 – May 2023

Work Experience

Goldman Sachs	Stockholm, Sweden
<i>Summer Analyst</i>	Jun 2023 – Sep 2023
<ul style="list-style-type: none">Software Engineering internship working with the Data Engineering teamPresented the results of the internship to senior stakeholders	
Scania	Sodertalje, Sweden
<i>Summer R&D Intern</i>	May 2022 – Jul 2022
<ul style="list-style-type: none">Worked with testing and debugging newly implemented software in electric trucksHeld a presentation demonstrating how a new software program can be used for the development of ECUs in electric vehicles, the presentation has been shared with over hundreds of people in Scania's R&D department to aid them in adopting the software program	
Hitachi Energy	Stockholm, Sweden
<i>Summer R&D Intern</i>	Jun 2021 – Aug 2021
<ul style="list-style-type: none">Designed and built several PCBs for EMI and EMC testing purposes using KiCadEnsured that the PCBs were following IEC standards for creepage and clearance distances for high power circuits	

Projects

Subtyping of Alzheimer's disease using SuStaIn - Master's thesis	Jan 2024 – Jun 2024
<ul style="list-style-type: none">Subtyping of Alzheimer's disease(AD) using Subtype and Stage Inference(SuStaIn) model with FDG-PET data. The purpose was to identify subtypes of AD by using SuStaIn for clustering data and finding different temporal progression patterns.Ran experiments using many different setups in regards to normalization, clustering and dimensionality reductionCreated an Autoencoder model for dimensionality reduction	
Twitch chat analyzer – Group Project	Sep 2023 – Oct 2023
<ul style="list-style-type: none">Created a chrome extension to fetch live twitch chat streaming data via IRC socket and represented the sentiment in the chat by showing an emoji that updates every secondUsed Kafka for fault tolerant ingestion of data and Spark for processing of streaming dataRetrieved the sentiment of each message using VADER sentimental analyzerStored each message in Cassandra and created a Flask app to retrieve the latest sentiment	
Pre-analysis of nanopore data for DNA basecalling – Bachelor thesis	Jan 2022 – May 2022
<ul style="list-style-type: none">Used ML to predict the accuracy rate of the data samples from nanopore DNA sequencingBuilt linear regression models as well as neural network models using Tensorflow/SKlearn	

Skills

- Programming Languages:** Python, Matlab, C
- Other:** Pytorch, Pandas, Tensorflow, SKlearn, Keras, Arduino, HDL, LTSpice
- Languages:** Swedish - Fluent, English - Fluent, Chinese(Hakka dialect) – Native Language, French – CEFR B2 level, Chinese(Mandarin) – Basic