

Peyman Kor



Ph.D in Machine Learning | Data Scientist

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Data Scientist with a **Ph.D. in Machine Learning** and over 3 years of experience in developing **ML models** for **optimization** and enhancing **decision-making**.

EXPERIENCE

UNIVERSITY OF STAVANGER | LECTURER

Sep-Dec 2022 | Stavanger, Norway

- **Led** MSc-level course "Modeling for Decision Insight", delivering hands-on technical training in Python.

NORCE | DATA SCIENTIST/RESEARCHER

Jan-Dec 2021 | Bergen, Norway

- **Developed** a probabilistic machine learning workflow for optimizing production processes as part of the digires.no project.
- **Improved** efficiency for consortium companies through computationally efficient optimization method.

AKER BP | DATA SCIENTIST INTERN

Jun-Aug 2019 | Stavanger, Norway

- **Developed** a cloud-based web dashboard for Value of Information (VOI) analysis with R shiny app.
- **Developed** a cloud-based web dashboard for Probabilistic Reserve Evaluation with R shiny app.

PROJECTS

AMERIOPT | PYTHON | GIT&GITHUB | POETRY

2024

- **Built** a Python package for pricing American options using reinforcement learning.
- **Published** related research in peer-reviewed journal, detailing the reinforcement learning approach. [Link to the paper]

BAYESIAN OPTIMIZATION | PYTHON, BAYESIAN OPTIMIZATION

2023

- **Implemented** a novel workflow for optimizing well control in oil production using Bayesian Optimization, **outperformed** traditional algorithms(GA and PSO).
- **Published** related research, detailing the approach. [Link to the paper]

MACHINE LEARNING FOR WELL PLACEMENT MANAGEMENT | R, RSTUDIO

2019

- **Built** an ML model (XGBoost) to optimize well placement and injection rates, enhancing oil field development decisions.
- **Published** the analysis and results in reproducible format in bookdown [here].

AWARDS

- 2022 **1st** Open Data Hackathon Prize, Stavanger kommune (NOK 5,000)
- 2019 **1st** Most Integrated International Student, University of Stavanger
- 2019 **1st** Innovation Hackathon Prize, Technical University of Denmark (DKK 100,000)

LANGUAGES

English (Fluent), **Norwegian** (Intermediate, B1/B2 Nivå), **Persian** (Native)

SKILLS

PROGRAMMING

Proficient:

Python • R • SQL

MACHINE LEARNING

Pandas • Scikit-learn • PyTorch
• XGBoost • CARET • AutoML

BIG DATA

PySpark • Hadoop • Apache
Kafka

CLOUD/DEVOPS

Microsoft Azure • AWS •
Docker

VERSION CONTROL

Git • GitHub

EDUCATION

UNIVERSITY OF STAVANGER

PH.D. FELLOW IN MACHINE LEARNING
2021 - 2024 | Stavanger, Norway

TECHNICAL UNIVERSITY OF DENMARK

MSC LEVEL PROGRAM IN
MATHEMATICAL MODELING AND
COMPUTER SCIENCE
2019 - 2020 | Copenhagen, Denmark

UNIVERSITY OF STAVANGER

MSC IN RESERVOIR ENGINEERING
2017 - 2020 | Stavanger, Norway

CERTIFICATIONS

AZURE FUNDAMENTALS

Microsoft Certified: AZ 900,
Issued Sep 2024

GENERATIVE AI

DeepLearning.AI, Issued Aug
2024

DECISION INTELLIGENCE

Linkedin Course, By Cassie
Kozyrkov, Sep 2023