

# Peyman Kor

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Ph.D in Machine Learning | Data Scientist

- *Statistical Modeling / Optimization / Predictive Modeling*
- *Generative AI / RAG & LangChain / AI Strategy*
- *Python & R / MLOps / Microsoft Azure*

## Education

- 2022–2024 **PhD in Machine Learning**, University of Stavanger, NORWAY
- PhD Topic: Machine Learning for Decision Making under Uncertainty.
  - Developed AI solutions using: **Reinforcement Learning** and **Advanced Optimization**.
- 2019–2020 **MSc Level Program**, in *Mathematical Modeling and Computer Science*, Technical University of Denmark, DENMARK
- Completed a one-year specialized program in Data Science, Machine Learning and Mathematical Modeling.
- 2017–2019 **MSc in Engineering**, University of Stavanger, NORWAY
- MSc Thesis: Decision-Driven Data Analytics for Well Placement Optimization in Field Development Scenario-Powered by Machine Learning.

## Work Experience

- Sep-Dec 2023 **Lecturer**, University of Stavanger, Norway
- **Responsible** for teaching MSc degree Course, titled "Modeling for Decision Insight"
  - **Taught** a course on "Applied Machine Learning" for professionals in the industry.
- Jan-Dec 2021 **Data Scientist/Researcher**, NORCE, Bergen, Norway
- **Developed** a machine learning workflow for production optimization in subsurface (digires.no)
  - **Improved** optimization process efficiency by **500%** through the implementation of probabilistic machine learning model.
- Oct-Jan 2019-2020 **Machine Learning Developer**, DTU, Copenhagen, Research Project
- **Developed** a Bayesian Neural Network using Pytorch for the classification and regression problem.
- Jun-Aug 2019 **Data Scientist Intern**, AKER BP, Stavanger, Joint Project UiS/AKER BP
- **Developed** a probabilistic reserve estimate dashboard tool using R Shiny/RStudio, providing real-time insights.
  - **Analyzed** over **10,000** scenarios, allowing data-driven decision making.

## Data Science & Programming Skills

- Programming **R** (Tidyverse, Rdatatable, Shinyapp, Rmarkdown), **Python**(Pandas, Numpy, Scikit-learn, TensorFlow,Plotly), **SQL** (SQLite, MariaDB), **Big Data** (Spark, Pyspark, Rdatatable)
- ML **PyTorch** (CNN, RL, CUDA), **R**(XGBoost, CARET), **AutoML** (H2O)
- LLMs **Hugging Face**, **OpenAI API**, **RAG**, **LangChain**
- Others **Version Control** (Git, Github), **DevOps** (Docker), **Cloud** (Azure, AWS)

## Honors and Awards

- Sep 2022 **Open Data Hackathon Prize**, Stavanger kommune, Stavanger
- **Awarded** the prize of NOK 5,000 for proposing the idea of a data-driven app.
- Jun 2019 **Most Integrated International Student**, University of Stavanger, Stavanger
- **Awarded** "Most Integrated International" Student at Institute of Energy Resources, Class 2019.
- Sep 2019 **Innovation Hackathon Prize**, Technical University of Denmark, Copenhagen
- **Awarded** First prize of DKK 100,000 for proposing a digital dialogue tool for new parents.

- May 2019 **Best Poster Award, at SPE European Region Contest, Krakow, Poland**  
○ *Awarded* at Society Of Petroleum Engineers European Region Contest.

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## Licenses & Certifications

- Nov 2024 **Reinforcement Learning From Human Feedback, DeepLearning.AI**  
Oct 2024 **SQL for Data Science, University of California, Davis**  
Sep 2024 **Azure Fundamentals - AZ 900, Microsoft**  
Aug 2024 **Generative AI for Everyone, DeepLearning.AI**  
Dec 2019 **Mathematics for Machine Learning: Linear Algebra, Coursera**

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## Languages

English: **Fluent**, Norsk: **B1 Nivå certificate** (Working up toward getting B2 level)

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## Knowledge Sharing & Outreach

### Publications & Research

- **Published 6** peer-reviewed papers (**4** as first author) in leading venues.
- **Accumulated 100+** citations across all publications.
- **Focused on 3** key areas: Optimization, Machine Learning, and Decision Analytics.

### Knowledge Sharing & Communication

- **Delivered 4** technical presentations at international conferences, reaching **500+** attendees.
- **Authored 20+** AI/ML publications on Medium, achieving **30,000+** views.