

# Majid Khoshrou

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## PROFILE

Experienced Data Scientist with 10+ years of combined experience in industry and academia. Specialized in machine learning, forecasting, and real-time analytics, with a proven track record of leading data-driven initiatives across domains such as energy, mobility, and infrastructure. Adept at building scalable models, mentoring teams, and translating complex data into actionable insights. Passionate about applying AI to solve real-world challenges and delivering impact across diverse sectors.

## SKILLS

**Programming:** Python, SQL, MATLAB, PySpark, Bash

**Libraries/Frameworks:** Scikit-learn, Pandas, NumPy, TensorFlow, PyTorch, XGBoost, LightGBM

**Data & Cloud Platforms:** AWS, GCP, Azure, Databricks, Docker, Git

**Analytics & Visualization:** Power BI, Tableau, Matplotlib, Seaborn, Plotly

**Management & Collaboration:** Agile/Scrum, JIRA, Confluence, Stakeholder Engagement

**Open Source:** Contributor to OpenSTEF (Energy Forecasting Library)

**Languages:** English (Fluent), Dutch (Intermediate), Persian (Native)

## WORK EXPERIENCE

**Senior Data Scientist**, Alliander – Arnhem

Jan 2023 – Present

- Boosted day-ahead allocation forecast accuracy by 30%, enabling over 1.3 M euro annual cost savings.
- Identified cost-saving opportunities through in-depth analysis of energy settlement pricing.
- Contributed to the open-source library [OpenSTEF](#), improving usability and model robustness.
- Built statistical models to assess and mitigate grid reliability risks.
- Standardized model validation practices across teams, ensuring consistent performance tracking.
- *Key Skills & Tools:* AWS, OpenSTEF, Forecasting, Energy Markets, Risk Modeling, Model Validation, Stakeholder Engagement

**Postdoctoral Researcher**, Centrum Wiskunde & Informatica – Amsterdam

Jul 2020 – Dec 2022

- Delivered accurate EV charging demand forecasts, supporting infrastructure planning for urban mobility.
- Introduced carbon impact metrics for server clusters, influencing sustainability reporting practices.
- Co-taught graduate-level courses, enhancing student engagement in AI and game theory.
- *Key Skills & Tools:* PyTorch, TensorFlow, Carbon Accounting, EV Infrastructure Planning, Research Supervision, Scientific Writing

**Data Scientist**, Maistering B.V. – Amsterdam/Rotterdam

Nov 2019 – Jul 2020

- Developed customer segmentation models that improved marketing campaign targeting and ROI.
- Delivered ML-powered features that enhanced product value for enterprise clients.
- Collaborated across teams to accelerate deployment of analytics pipelines.

- *Key Skills & Tools: Azure, Git, Agile, Customer Segmentation, Data Visualization, Product Development*

**PhD Researcher**, CWI & TU Delft – Netherlands

Dec 2015 – Nov 2019

- Pioneered probabilistic modeling techniques for smart grid forecasting, improving reliability of energy predictions.
- Developed anomaly detection methods that enhanced grid health monitoring capabilities.
- Published peer-reviewed research that contributed to advancements in time series analysis.
- *Key Skills & Tools: Python, Smart Grids, Probabilistic Modeling, Anomaly Detection, Pattern Recognition, ML Research, Scientific Writing*

**Project Research Member**, C2SR Lab – Porto, Portugal

May 2013 – Oct 2015

- Designed real-time learning algorithms that improved navigation efficiency in marine robotics.
- Enhanced adaptive sampling strategies, enabling more effective data collection in ocean missions.
- *Key Skills & Tools: MATLAB, Unsupervised Learning, Online Learning, Adaptive Sampling, AUV Systems, Real-Time Analytics*

**Project Assistant**, EDSAB Co. – Tehran, Iran

Feb 2011 – Feb 2012

- Built predictive models that improved detection of electricity theft in smart meter data.
- Developed long-term forecasting tools that supported national energy infrastructure planning.
- *Key Skills & Tools: SQL, Excel, Electricity Theft Detection, Time Series Forecasting, Infrastructure Planning, Smart Meter Analytics*

## EDUCATION

**PhD in Artificial Intelligence**, *CWI and Delft University of Technology*

2015 – 2020

Thesis: “Singular Value Decomposition for Time Series Analysis in Smart Energy Systems”

Research Group: [Intelligent and Autonomous Systems](#), CWI, Amsterdam

**MSc in Information Engineering**, *University of Porto, Portugal*

2012 – 2015

Specialization: Data Science

Thesis: “Real-Time Unsupervised Motion Learning for Autonomous Underwater Vehicles”

**BSc in Electrical Power Engineering**, *Babol Noshirvani University of Technology, Iran* 2002 – 2007

## CERTIFICATIONS

- **Advanced Data Analytics Professional Certificate**, Google – Coursera 2024  
Credential: [3XSKUU95JJAB](#)
- **Google IT Support Professional Certificate**, Google – Coursera 2021  
Credential: [G8CCK7XL6AWD](#)

## ADDITIONAL INFORMATION

**Work Eligibility:** EU citizen (Dutch nationality), also holds Iranian citizenship

**Interests:** Fitness, photography, travel, museums, technology, chess

**References:** Available upon request