Magdalena Kowalczuk

Data Scientist with a creative twist

Messy data and good ol' machine learning enthusiast with a soft spot for open source software. Dedicated to transitioning into a professional role making best use of the recently developed tech skills and years of experience in communication with students and customers.

contact

Amsterdam
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experience

Data Science & Machine Learning Projects
Self-study
October 2022 - Present

- **Juniors vs ChatGPT:** Did ChatGPT Replace Juniors? | Explored the impact of ChatGPT on entry-level tech roles. Skills: Python, APIs, Polars, Hvplot. Link to GitHub repo.
- **Compensation-prediction:** Model experimentation project applied to create an app to predict salary: Skills: Python, scikit-learn, Streamlit, Docker Link to GitHub repo
- **MaskMap:** Decoding the Hidden Spectrum | Developed an NLP tool to identify symptoms of Autistic Masking. Skills: Python, Pandas, NLTK, LinearSVC, XGBClassifier, FastAPI, Reddit API. Link to GitHub repo.
- **Equity in Healthcare** | WiDS Datathon project predicting metastatic cancer diagnoses. Skills: Python, Pandas, Gradient Boosting Models, Keras. Link to GitHub repo.
- For more projects and details, visit my GitHub page.

Open-source Contributor
Scikit-lego, Narwhals
March 2024 - Present

- Creating methods for abstraction layer for pyarrow and dask in Narwhals,
- Creating dataframe agnostic classes in Scikit-lego
- Contributions to documentation, deprecating obsolete methods, testing and adding pre-commit hooks.

Dutch Teacher
Self-employed
January 2012 - Present

- Taught over 100 adult non-Dutch speakers to proficiency, aiding their integration into Dutch society and career transitions

Artist and Producer
Self-employed
January 2012 - Present

- Created over 200 murals, produced music videos (1M+ views), and organized workshops for Amnesty International and Stedelijk Museum.

skills & expertise

- **Data Handling:** Python (Data Scraping), Pandas, Polars
- **Database Management:** PostgreSQL, BigQuery, GCP Data
- **Analysis & Visualization:** Seaborn, Hvplot
- **Machine Learning & AI:** scikit-learn, Boosting Algorithms, TensorFlow, Keras
- **Model Deployment:** GCP, Docker
- **Development Tools:** Git, FastAPI, Zsh
- Resourceful problem-solving
- Breaking down and explaining complex concepts
- Effective communication
- Positive attitude and humor

education & certifications

Mentorship Program | Woman in AI
| Apr 2024 - Present

- Deepened understanding of data science with guidance from industry experts and 1-on-1 mentoring with senior data scientist.

Machine Learning Engineering for Production (MLOps)
| Jan 2023

- Gained skills on deploying machine learning models and maintaining production systems. Link to certificate

TensorFlow Developer | DeepLearning.AI
| Oct 2022

- Learned to build and deploy neural networks using TensorFlow. Link to certificate

Self-Study on Data Science and Machine Learning
| 2021 - Present

- Completed multiple online courses
- Took part in hackathons and datathons
- Achievements include: #Shesharp Hackathon winner, 'Most Polished' category winner, top 10% Kaggle Notebook Expert, writing Medium blog posts .

Artificial Intelligence | Utrecht University
| 2007 - 2011

- Completed ca. 150/180 credits towards a BSc in Artificial Intelligence, focusing on Machine Learning, C#, Haskell, Java programming, and Cognitive Neuroscience.

languages

Dutch: C1
English: C1
German: B2
Polish: Native