

# DANIEL PAVLICEK

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*Leverage Data to drive Innovation and Uncover Insights.*

## Experience

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**Panos AI GmbH** (Co-Founder | Data Scientist | Machine Learning Engineer) *Remote | Berlin* March 2022 - present

- Leveraged Language Models (LLMs) to generate synthetic data, facilitating the extraction of software solutions and tasks from job descriptions
- Developed a Retrieval-Augmented Generation (RAG) framework to create standardized industry categories and personas for AI solutions.
- Designed and implemented a web crawler capable of downloading 1 million HTML files daily from job posting websites.
- Built a data pipeline on a Kubernetes cluster, converting unstructured HTML files into JSON files and processing 300 million files in 20 days.
- Fine-tuned transformers models to classify sentences achieving 90+% accuracy for extracting tasks from job descriptions.
- Configured ChatGPT to interact with PowerBI, generating DAX queries from natural language questions.

**Here Technologies** (Data Scientist) *Berlin, Germany* March 2017 - April 2020

- Designed and trained a U-Net model for traffic-forecasting in 5 sample cities, improving the Traffic Analytics API
- Experimented with various vision models (CNN, VGG, YOLO) to segment and classify features in satellite images.
- Feature engineering for image recognition and classification of traffic signs.

**Infotech-CS** (Data Engineering | Data Scientist) *Brno, Czech Republic - Rome, Italy* September 2009 - March 2014

- Designed machine learning regression models to predict bug detection.
- Software quality and control analyst
- Generating reports to analyze software quality

**Assicurazioni Generali** (Data Analyst) *Rome, Italy* February 2006 - July 2008

- Data collection and analysis for risk management
- Designing reports for monitoring key performance indicators

## Programs and Certifications

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**AI Founders Accelerator Program** (4th Cohort of the Startup AI Founders Program) *Heilbronn, Germany*  
April 2024 - Present

**Worldwide AI Hackathon** (3rd Place for the Generative AI at the Worldwide AI Hackathon) *Online*  
May 2023 - August 2023

**Applied Data Incubator** (Incubated in the startup program after winning Applied Data Hackathon) *Berlin, Germany*  
February 2022 - December 2022

**Aquaculture Project** (Assisted in designing and training an underwater camera system for fish detection, used to estimate mass in aquaculture.) *Rome, Italy*  
April 2023 - Present

**Coursera: Deep Learning Specialization** (CNN, Neural Networks and Deep Learning) *Online* February 2018

**Coursera: Machine Learning** (Andrew Ng's Machine Learning Course) *Online* August 2013

**Coursera: Mining Massive Datasets** (Data-streams, Hashing, Clustering, Recommender systems, Decision trees) *Online* December 2014

## Education

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**University of Bristol** *Bristol, United Kingdom* 2001-2004  
*Bachelors of Science in Mathematics*

**Sapienza Universita di Roma** *Rome, Italy* 2004-2006  
*2 years of coursework in Mathematics (Combinatorics, Differentiable Manifolds, Analysis)*

## Skills

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- Languages and Libraries: Python, SQL, Transformes, Pytorch, Tensorflow, Keras, Jupyter, Sklearn, Spark, Pandas, Numpy, LlamaIndex, Langchain , Spacy
- DevOps and Tools: Kubernetes, Docker, RabbitMQ, PowerBI, Open Telekom Cloud, Azure, GCP, VS Code, GitHub, Notion, Slack
- Knowledge: Deep Learning, Machine Learning, Cloud (OTC , Azure)