

Mobin Shahidi, M.Sc.

Full-stack AI & Software Engineer | Production Systems

Berlin, Germany | m.mobinshahidi@gmail.com | +4917677234420 | www.mobinshahidi.com | [Linkedin.com/in/mobin-shahidi](https://www.linkedin.com/in/mobin-shahidi) | [Github.com/parsprogrammer](https://github.com/parsprogrammer)



PROFESSIONAL SUMMARY

AI Engineer with **3+ years** of experience building **production ML systems, recommendation systems, NLP, and LLM-powered applications**, combined with **4+ years** of **software engineering** experience. Skilled in **MLOps, AWS** cloud infrastructure, **backend services**, and **full-stack development** using **Python, FastAPI, and C#**. Published researcher and startup founder with a track record of delivering software products from concept to production.

KEY SKILLS

<i>AI / ML</i>	<i>Engineering</i>	<i>Backend / Frontend</i>	<i>Infrastructure</i>
✓ Recommender Systems	✓ Performance Evaluation	✓ Python, C#, .NET	✓ Docker + ECR + CloudWatch
✓ Production ML, MLflow	✓ System Architecture	✓ FastAPI, TensorFlow, PyTorch	✓ Terraform (IaC)
✓ XAI, NLP, Data Pipeline	✓ REST API Design	✓ Next.js, TypeScript, JavaScript	✓ CI/CD (GitHub Actions, Vercel)
✓ LLM (Fine-tuning, RAG)	✓ System Monitoring	✓ SQL + Databases	✓ AWS (SageMaker, Lambda)

WORK EXPERIENCE

Founder & AI Engineer, MeydaNews

Mar 2026 – Present

Project: Intelligent Media Analysis Platform (meydanews.com)

Berlin, Germany

- Building an AI-powered media analysis platform for monitoring news sources using **ML models** and social-media signals.
- Designed and implemented an end-to-end **MLOps** platform on **AWS** covering feature engineering, feature storage, model training, validation, deployment, monitoring, and lifecycle management.
- Established reproducible machine learning development processes for news-source quality assessment, including experiment tracking, model validation, versioning, and lifecycle management using **MLflow**.
- Architected scalable real-time inference infrastructure using **Amazon SageMaker, FastAPI, AWS Lambda**, and **API Gateway** for low-latency model serving.
- Built a cloud-native full-stack platform using **Next.js, TypeScript, Docker, Terraform, GitHub Actions**, and **AWS** services, automating infrastructure provisioning and **CI/CD** workflows.

AI Research Engineer, University of Potsdam, Full-time

Feb 2024 – Feb 2026

Project: Social Media For Democracy (github.com/parsprogrammer/exogenous-cues-pipeline)

Potsdam, Germany

- **Led the development** of **data pipelines** processing **5M+** social-media records and engineered **41 features** from user behavior and social media content for ML and recommendation systems.
- **Developed machine learning and recommendation models** in **Python** (e.g., Scikit-learn), using cross-validation and hyperparameter tuning to **predict information-quality scores** with 0.58 correlation against benchmark ratings.
- Implemented **reproducible feature-engineering**, data validation, and **experiment-tracking** workflows using **MLflow, GitHub**, and **automated testing**.
- Investigated model behavior and feature importance to understand key quality signals and optimize recommendation.
- Collaborated with **cross-functional research teams** to improve recommendation quality, increasing the average quality score of recommended sources by **+3** points while maintaining baseline precision.

Co-Founder & Full-stack Software Engineer, PhotoCans

Feb 2017 - Jul 2021

Project: Private Family Photo Management Platform (photocans.com)

Hamedan, Iran

- **Co-founded and launched** a privacy-first family memory management platform serving **100+ users**, enabling secure photo storage, organization, and sharing across desktop, mobile, and web applications.
- Designed and developed the web platform, administration portal, and backend services using **ASP.NET Core Blazor, C#, JavaScript**, and **SQL Server**, supporting product presentation, online sales, customer onboarding, and support operations.
- **Architected** modular service and data-access layers using repository-based design patterns, improving maintainability, scalability, and long-term product evolution.
- Built licensing and activation infrastructure, including secure **REST APIs** and serial-key validation services, supporting software distribution, product lifecycle management, and customer authentication.
- **Led deployment, maintenance**, and continuous enhancement of production systems hosted on IIS, delivering multiple releases and ensuring reliability, performance, and operational stability.

EDUCATION

<i>Master</i>	Artificial Intelligence and Robotics , Bu-Ali Sina University	<i>Jan 2020 - Jan 2023</i>
<i>Bachelor</i>	Software Engineering , Bu-Ali Sina University	<i>Sep 2014 - Jul 2019</i>

LANGUAGES

Persian: Native **English:** Advanced (C1) **German:** Conversational (B1)

PUBLICATIONS

- *Exogenous Cues to Information Quality (2026)*
- *Improving News Reliability in Algorithmic Newsfeeds (2026)*
- *Possible futures: Societal consequences of algorithmic design and social media use (2026)*
- *A Framework for Accurate Recommendations and Explanation Generation Using Multi-Task Learning (2023)*

PROJECTS

Chatbot Evaluation Framework (github.com/parsprogrammer/chatbot_evaluation) *Feb 2026 – Feb 2026*

- Developed a Python-based framework for benchmarking **LLM responses** across diverse prompts and evaluation criteria.
- Built automated **evaluation pipelines** to compare generated responses against reference outputs and measure quality, consistency, and correctness.
- Established reproducible testing workflows for systematic validation and performance assessment of conversational AI systems.

Translation Quality Evaluation (github.com/parsprogrammer/translation-pipeline) *Jan 2024 - Jan 2024*

- Built an end-to-end machine translation pipeline covering preprocessing, translation, and post-processing workflows.
- **Fine-tuned** and evaluated translation models on domain-specific datasets to improve translation quality and consistency.

DocPilot — AI Study Assistant (github.com/parsprogrammer/docpilot) *Nov 2025 – Jan 2026*

- Built a **production-style LLM backend system** integrating **RAG, ReAct-based agent workflows, and function calling** to enable grounded, multi-step reasoning.
- Implemented **context-aware retrieval and prompt orchestration** (chunking, relevance scoring) to improve answer accuracy and reduce hallucinations.
- Developed a tool-driven architecture with persistent memory, enabling structured interaction with backend services and stateful, multi-turn AI workflows.

Explainable Deep Learning Recommender Systems (github.com/parsprogrammer/exp-rs) *Mar 2023 – Sep 2023*

- Designed an explainable recommender system over 151K reviews and ratings (14K users, 8.7K items), combining **NLP**, multi-task learning, and personalized recommendation modeling.
- Developed deep learning pipelines in **TensorFlow** and **PyTorch** for recommendation, explanation generation, sentiment analysis, and user-preference modeling.
- Applied neural text generation and reinforcement-learning optimization techniques, achieving 0.992 MSE in rating prediction and ~0.97 semantic similarity in generated explanations.

29 May 2026, Mobin Shahidi