IVANA **MATIĆ**
PhD I NLP Developer I Language Data & Prompt AI Engineer

Ph.D. Applied Linguist and German Language Professionalist with 5+ years in Academia and Education which combines Linguistics Expertise with NLP, Machine Learning, Language Data Engineering as well as AI/LLM's and Prompt Engineering

Learn who I am beyond this resume with <u>IvyBot</u>, my AI Assistant.

✉ | ivanamati@gmail.com

</> | <u>GitHub projects</u>

📄 | <u>Croatian Scientific Hub Profile</u>

📱 | +385 99 742 7498

in | <u>My LinkedIn Profile</u>

EXPERTISE

NATURAL LANGUAGE PROCESSING
Codecademy

- Text Preporcessing
- Language Parsing & POS Tagging
- Language Models: Bag of Words, Term Frequency-Inverse Document Frequency, Word embeddings; Text Generation with Deep Learning: LSTM model; Text Classification, Sentiment Analysis, Information Extraction
- Apply Natural Language Processing with Python (Skill Path)

AI / ML

- IBM: Prompt Engineering; Conversational AI
- OpenAI and DeepLearning.AI: Prompt Engineering for Developers
- Google Cloud: Generative AI Fundamentals
- Google Developers: Machine Learning Crash Course
- Codecademy: Learn Machine Learning (Skill Path)

DATA ANALYSIS

- IBM: Data Analysis with Python
- IBM: Python for Data Science
- IBM: Data Visualisation in Python

SKILLS

Python, NLTK, SpaCy, Regular Expressions, OCR, Pattern Recognition, Gensim, Pandas, Numpy, Text Preprocessing, Git, Command Line, Prompt Engineering, LangChain, ChatGPT, HuggingFace, Streamlit, SQL/SQLAlchemy, Command Line/Gitbash, SPSS

PROFESSIONAL EXPERIENCE

Team Lead Prompt Engineer & Data Science Intern
Mai 2024 - August 2024
Silverbrain AI AG, Switzerland

- Crafted prompts to facilitate efficient communication with LLMs using RAG approach for GenAI workflow automation tool ChemAssist.ai
- Developed creative and effective prompt strategies that enhanced the capability of AI models.
- Achieved significant improvements in prompt response accuracy (70 to 90%) and increased the efficiency of AI workflows through optimized prompt engineering techniques.
- Data research and analysis to improve prompt-based AI model performance, while leading the prompt engineer team

Language Data Engineer & Data Analyst
Jan 2024 - April 2024
Apple Inc. l Barcelona, Spain

- Computational Linguist and Data Engineer on 3 months project for Apple (through M47Labs, AI Solutions):
- Developing an Automatic Speech Recognition (ASR) for a popular Voice Assistant and Dictation tool for the Croatian Language
- Data analysis and data generation for LSTM model
- ML model training using Python and Regular expressions

Language Lecturer
Mar 2019 - now
Faculty of Economics & Business I Zagreb, Croatia

- Bussiness Foreign Language Department
- Online lecturers and courses for students of Economics and Business
- Developing language learning materials
- Planing of curriculums

Board Member & Primary School Department Leader
2015 - now
National association of the German language professionals

- Head of the elementary school section in Croatia
- Organising annual conferences for language teacher education
- Plenar lecturers about current scientific researches in the field

EDUCATION

Python Developer
Algebra University, Zagreb
2022 - 2023

PhD in Applied Linguistics
University of Zagreb
2015 - 2020

M.A in Phonetics, M.A. in German Language
University of Zagreb
2015 - 2020

Reference Letter for Ivana Matic

19th August 2024

Ivana Matic worked on a pre-agreed pro-bono basis with Silver Brain AI AG during May-July 2024 on her own terms and flexibility of time and remote location to learn Data Science on industry use cases.

She demonstrated extraordinary brilliance on the tasks assigned to her related to prompt engineering of LLM pipelines. Her contribution included:

- Crafted prompts to facilitate efficient communication with LLMs using RAG approach for GenAI workflow automation tool.
- Developed creative and effective prompt strategies that enhanced the capability of AI models.
- Achieved significant improvements in prompt response accuracy (70 to 90%) and increased the efficiency of AI workflows through optimized prompt engineering techniques and refined queries.
- Data research and analysis to improve prompt-based AI model performance, while leading a small prompt engineer team.

I personally enjoyed every interaction with her as she brought positivity, dedication and problem-solving mindset. I believe that her capabilities go beyond prompt engineering as she can very well lead people, project and product development.

I wholeheartedly recommend her as an asset to any company.

Ankit Garg

Chief Executive Officer & Founder
Silver Brain AI AG

In Barcelona, on May 13 2024

To Whom it might concern,

M47 Labs &International Fiducia, S.L., aSpanish Company with CIF B67236083, located at Diputació 279, 3-6 in 08007, Barcelona, certifies that Ivana Matić has been working in this company from 10/01/2024 to 31/03/2024 as a Computational Linguist

In M47 Labs, we are focused on helping companies deliver high quality Software and AI products. We also provide tailor made International Data Labelling Tools and Services.
Ivana has worked up to the date for one of our major clients within aVoice Assistance Software
Project. Amongst her duties:

- Analysing existing data in her own language and correct existing data to improve quality
- ML model training to improve LSTM
- Generating new training data
- Fixing bugs related to the automated speech recognition
- Resolving localization issues

Ivana possesses a remarkable skill set in data analysis and she has demonstrated a deep understanding of statistical methods and data cleaning processes. Ivana has consistently delivered outstanding results in improving data quality and resolving issues or bugs. She consistently demonstrated initiative and meticulous attention to detail and innovative problem-solving approach, that were key factors in the success of the project she worked on.

In addition to her technical proficiency, Ivana possesses excellent communication skills, and she has been a highly motivated and reliable team member. She has a talent for conveying complex technical concepts in a clear and concise manner. Her positive attitude, strong work ethic, and dedication to excellence have earned her the respect and admiration of her peers.

Should you require any more information, please do not hesitate to contact the Human Resources department at hr@m47labs.com.

Sincerely,

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Clara Martí Berenguer
HR Manager
M47 LABS & INTERNATIONAL FIDUCIA, S.L.