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# MOMIR B

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## FULL STACK DATA DEVELOPER

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Helsinki, Finland

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### SUMMARY OF SKILLS

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- Business requirements gathering
- Analytical approach
- Python/Numpy/Scipy/Scikit-learn/Pandas/PyMC3/ Matplotlib/Seaborn
- Machine learning methods (classification, clustering, regression, pattern matching, recommendation, anomaly detection, transformers, attention mechanisms, tokenisation, embeddings)
- Data and ML services in Azure/AWS/GC
- Github actions/Azure DevOps
- Tensorflow/Keras
- Deep learning architectures (LLMs, CNN, LSTM, GANs)
- MySQL/MongoDB/NoSQLPostgreSQL/Redis
- NLTK/Word2Vec/Glove/TF-IDF
- Flask/FastAPI/Streamlit web frameworks

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### EXPERIENCE

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#### **NORDCLOUD OY, Full Stack Data Developer, Helsinki, Finland**

**08/2021 - PRESENT**

- Implemented and deployed end-to-end GenAI chatbot in the area of competition and consumer rights based on Azure PromptFlow, Azure Machine Learning and Azure OpenAI improving 3 times embedding-based cosine similarity of the evaluation flow using RAG approach.
- Implemented and deployed GenAI chatbot in the area of publishing law based on Vertex AI and Gemini with 2 times improved cosine similarity using prompt engineering and parameter fine-tuning.
- Implemented and deployed Azure CI/CD pipelines that created various data products in Snowflake and consumed in PowerBI.
- Implement end-to-end machine learning project sales forecasting model on GC that improved up to 30% decision-making and resource allocation.
- Perform BigQuery analytics on projects, opportunities, revenue and staffing data recovering more of 2 millions of lost revenue.
- Implemented and deployed CI/CD data-mesh platform on AWS.
- Implement and lead AWS Secure AI Data Foundation.
- Actively participate in presales and contribute in winning over some of the most demanding clients.

#### **HUNOME OY, Data Scientist, Helsinki, Finland**

**09/2020 - 08/2021**

- Design B2B and B2C data products based on various machine learning solutions.
- Create highly customized knowledge graphs from large amount of textual data and capture context and relationships between different data entities in the data.

#### **REWAKE OY, Data Scientist, Helsinki, Finland**

**03/2020 - 09/2020**

- Research and experimentation with various object detection and segmentation deep learning models and datasets.
- Designed and implemented machine learning CI/CD pipeline for running vehicle traffic detection and counting in production.
- Implemented real-time vehicle detection, tracking and counting in live camera video streams for Finferries.
- Implemented and deployed deep learning model for vans and car and truck trailers classification.
- Implemented and deployed real-time video analysis of driving behavior and ferries vehicle loading/unloading insights.

#### **COLLECTIVE CRUNCH OY, Data Scientist, Espoo, Finland**

**04/2019 - 09/2019**

- Designed and implemented statistical experiments based on various data sources.

- Created in-depth data analysis reports that improved forest inventory.
- Utilized image, sensor and geo-spatial data to implement various machine learning model that improved tree species accuracy by 10%.
- Created image clustering and segmentation of forest and harvested area.
- Worked to identifying business and analytical requirements to meet customer and project demands.
- Created domain specific feature engineering attributes that improved model performance by 5%.
- Implemented and deployed tree age prediction model that improved business decision-making.

**FORENOM OY, Data Scientist, Espoo, Finland**

**09/2018 - 02/2019**

- Worked on developing dynamic pricing reinforcement learning model.
- Developed time-series machine learning model for forecasting demand and occupancy.
- Conducted statistical analysis to identify trends and provide actionable insights for business.
- Developed data collection and transformation pipeline to support business intelligence in various areas such as marketing, sales.
- Implemented domain specific feature engineering attributes.

**VAINU OY, Data Scientist, Helsinki, Finland**

**02/2018 - 08/2018**

- Conducting in-depth data analysis and pattern findings based on tens of millions lead data collected from various sources (social media, news, articles, financial reports etc.)
- Developed and implemented time-series machine learning model to forecast growth and decay trends for all Finnish companies.
- Created time-series machine learning model to predicting sales and products for Telia Finland Oyj.
- Segmented all Finnish companies based on their size, market, competitors and income.

**WITRAFI OY, Data Scientist, Helsinki, Finland**

**10/2015 - 02/2018**

- Implemented and deployed machine learning algorithm that improved accuracy of device parking location estimation from 85% to 96% based on sensors data.
- Developed time-series machine learning models to predict user behavior (when and where they will park).
- Developed data reports for all levels of KPIs to enhance business performance and decision-making.
- Worked with different technologies RFID, WIFI, GSM, GPS for location estimation.
- Created data pipelines to fetch data from its sources (WIFI antennas, GSM base stations) and deliver final output (current parking zone, available parking spots, distance to closest parking spot, type of parking spot) to users through real-time APIs.
- Tested prototypes and deployed machine learning models in production.
- Carried out machine learning projects provided by Helsinki City and Q-Park related to occupancy and usability of parking areas.

**SHOPPIRE OY, Machine Learning Engineer, Helsinki, Finland**

**02/2015 - 08/2015**

- Developed recommendation system for grocery shopping list.
- Optimized volume of items and predict their prices.
- Developed price comparison engine for different grocery stores.

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## EDUCATION

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**MASTER OF SCIENCE: ELECTRICAL ENGINEERING AND COMPUTER SCIENCE**  
**University of Novi Sad, Novi Sad, Serbia**

**06/2005**

- Completed master thesis on developing Boolean threshold algorithms for impulsive noise removal in images.

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## OTHER SOFTWARE SKILLS

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| • Databricks (Unity Catalog, Notebooks, Delta Lake, Workflows)                                   | • Azure data services (Azure Data Lake, Azure Data Factory, Azure AI, Azure Machine Learning, Azure OpenAI) |
| • AWS data services (S3, Glue, Lambda, Athena, Lake Formation, Kinesis, EMR, Sagemaker, Bedrock) | • Kafka/Spark/Tensorflow/Keras                                                                              |
| • GC data services (Cloud Storage, Dataflow,                                                     | • Github/Github actions                                                                                     |
| • Dataproc, Pub/Sub, Composer, Cloud Run, Vertex AI, Gemini)                                     | • Terraform/CDK                                                                                             |
|                                                                                                  | • LLMs/Prompt engineering                                                                                   |
|                                                                                                  | • LLMs fine-tuning (multitask, PEFT, LoRA, RLHF)                                                            |

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## LANGUAGE SKILLS

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- Serbian - native
- English - proficiency
- Finnish – intermediate (Finnish National Certificate of Language Proficiency, May 2016)

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## CERTIFICATIONS

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- Neural Networks and Deep Learning, (Coursera, deeplearning.ai)
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, (Coursera, deeplearning.ai)
- AWS Certified Machine Learning – Specialty
- AWS Certified Data Analytics – Specialty
- AWS Solutions Architect
- Databricks Certified Data Engineer Associate
- GC Professional Data Engineering
- GC Cloud Digital Leader