Soheil Mohammadpour

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SUMMARY

Senior Data Scientist with 6 years of experience specializing in advanced AI solutions, machine learning, and data infrastructure. Proven track record of solving complex data challenges across multiple domains.

EXPERIENCE

Freelance Data Scientist / Data Analyst
Enigma Code   April 2024 – Present, Roosendaal, Netherlands

· Data-Driven Solutions & Optimization: Collaborate with clients across diverse industries to analyze data, develop insights, and implement data-driven strategies that optimize performance, enhance decision-making, and drive business growth.

· Customized Client Engagement: Work closely with clients to understand their unique business challenges and objectives. Design and deliver tailored data solutions, ranging from exploratory data analysis to advanced predictive modeling, that align with their specific needs.

· Flexible & Impactful Consulting: Operate as a flexible, on-demand resource, providing expert data analysis, reporting, and recommendations that deliver measurable results. Ensure that each project contributes to the client's strategic goals and long-term success.

Data Scientist / Data Analyst in Quantitative Trading
GrabSoft   April 2021 – April 2024, Yerevan, Armenia

· Machine Learning & Predictive Modeling: Design and implement machine learning models, including deep learning and natural language processing (NLP), to predict market behavior, generate trading signals, and drive quantitative trading strategies.

· Exploratory Data Analysis & Statistical Modeling: Perform in-depth exploratory data analysis on large-scale financial datasets to identify market trends. Develop and optimize statistical models for risk quantification, strategy enhancement, and profitability maximization.

· Data Pipeline Architecture & Cloud Solutions: Build and deploy scalable data pipelines and cloud-based infrastructure for processing high-volume, real-time financial data streams. Support the backtesting and performance evaluation of trading algorithms through robust data-driven insights.

NLP Nanodegree Project Reviewer
Udacity   January 2020 – December 2021, California, United States (Remote)

· Project Evaluation & Quality Assurance: Review and assess student projects in Natural Language Processing (NLP), ensuring alignment with rubric standards and industry benchmarks for quality and accuracy across key projects such as POS tagging, machine translation, and automatic speech recognition.

· Constructive Feedback & Student Development: Deliver detailed, actionable feedback to students, highlighting strengths and offering constructive suggestions for improvement. Focus on fostering a deeper understanding of NLP concepts and techniques, helping students refine their skills and excel in their coursework.

· Mentorship & Encouragement: Guide students through the project enhancement process with a professional, friendly, and positive approach. Encourage continuous learning and professional growth, ensuring students are well-prepared for successful careers in the NLP and AI fields.

NLP and Deep Learning Educator
UltraBright Education   September 2019 – January 2020, California, United States (Remote)

· Content Development & Instructional Design: Design and develop engaging educational materials, including slide decks and lecture notes, covering a comprehensive range of topics in NLP and deep learning. Topics include classification, regression, evaluation metrics, feature selection, sequence models, and more, ensuring both fundamental concepts and advanced techniques are effectively communicated.

· Practical Learning & Hands-On Demonstrations: Create Python modules and Jupyter notebooks for end-to-end modeling projects, coding exercises, and hands-on activities. These resources enable students to apply theoretical knowledge in practical settings, solidifying their understanding of NLP and deep learning methods.

· Student-Centric Learning & Concept Simplification: Strive to make complex NLP and deep learning concepts accessible and easy to understand. Provide clear, detailed explanations and practical tools to equip students with the skills they need to succeed in these rapidly evolving fields.

NLP Nanodegree Mentor
Udacity   March 2019 – September 2019, California, United States (Remote)

· Personalized Student Mentorship: Conduct weekly 1:1 calls with students, offering tailored guidance and support to deepen their understanding of NLP concepts. Collaborate with students to create individualized learning plans that align with their unique goals and help them stay on track throughout the Nanodegree program.

· Engaging Community Support: Host weekly webinars and facilitate AMA (Ask Me Anything) sessions on Slack, providing relevant, timely content and addressing student questions in real-time. Foster a collaborative and supportive learning environment that empowers students to succeed.

· Progress Monitoring & Goal Achievement: Ensure students are progressing according to the Nanodegree timeline by offering personalized feedback and strategic advice. Focus on helping students achieve their learning objectives, ensuring they graduate with the confidence and skills needed for a successful career in NLP.

EDUCATION

Bachelor's degree, Computer Science

University of Lugano · Lugano, Switzerland · 2017

· Earned a Bachelor of Computer Science degree, focusing on the fundamentals of programming, algorithms, and data structures.

· Gained proficiency in multiple programming languages, software development methodologies, and database management.

SKILLS

Programming: Python, SQL, C++, R

Data Analysis & Visualization: NumPy, Pandas, SciPy, Dask, PySpark, Matplotlib, Seaborn, Plotly, Bokeh, ggplot, Dash, Excel, Power Query

Business Intelligence (BI): Tableau, Power BI, Looker

Machine Learning & Deep Learning: Scikit-learn, TensorFlow, Keras, PyTorch, JAX, XGBoost

Cloud & MLOps: AWS, Azure, Google Cloud, Git, Docker, Kubernetes, MLflow

Data Engineering & Database Management: MySQL, PostgreSQL, SQLite, SQL Server, Apache Airflow, Apache Spark, Apache Kafka, Apache Hadoop, Databricks

Generative AI (GenAI): LangChain, LangGraph, CrewAI, Autogen, LlamaIndex, Pinecone, Gradio, Hugging Face