

Ila Amini

DATA ANALYTICS | ARTIFICIAL INTELLIGENCE

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Professional Summary

A proactive and analytical artificial intelligence engineer, with in-depth knowledge of data analytics. Experienced in building and maintaining end-to-end data pipelines, predictive ML models, and deriving actionable insights from large datasets. 5+ years of Python programming, 3+ year of developing learning models, in-depth knowledge of mathematics and statistics, and am comfortable working with the most popular ML/data tools. Quick to learn, innovative, highly ambitious, and committed to growth.

Experience

Capital Four | Junior Associate within Quantitative Credit Research

Mar 2023 – Aug 2024

- Built ETL pipelines and handled automatic data integration and pre-processing of market data
- Implemented end-to-end ML pipelines on large time-series data to uncover key trends and correlations along with in-depth analysis
- Created dynamic, real-time visualizations to monitor key metrics and present actionable insights, supporting strategic, data-driven decision-making
- Delivered and presented reports to non-technical stakeholders on regular basis, translating complex concepts into accessible language

KNTU | Artificial Intelligence Intern

Oct 2020 – Oct 2021

- Applied clustering learning techniques on unstructured datasets, and identified patterns and hidden meanings
- Extensive work on Neural Networks implementation and designing suitable metrics for model evaluation
- Delivered NLP sentiment analysis tasks, along with dynamic model testing and evaluation to ensure accuracy

Education

Technical University of Denmark, MSc in Autonomous Systems

Feb 2022 – Jul 2024

Major: Autonomous Systems | Minor: Machine Learning

Skills & abilities

- Programming Languages: Python, SQL
- Data Analytics Tools: NumPy, Pandas, Scikit-Learn, XGBoost, Power BI, Spark
- Other: GitHub, Microsoft Azure, FastAPI

Projects

End-to-End Traffic-Accident Forecasting Pipeline

Apr 2025

- Engineered features from monthly accident data
- Built & serialized forecasting models along with thorough analysis
- Deployed FastAPI service on Heroku for real-time predictions

Certifications

IBM | Exploratory Data Analysis for Machine Learning

Mar 2025

- Skills: Data Modeling, Feature Engineering, Data Transformation, Probability & Statistics