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. 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 time-series data to uncover key trends along with in-depth analysis
- Created dynamic real-time visualizations to monitor key metrics, and presented actionable insights, supporting strategic, data-driven decision-making
- Delivered reports to non-technical stakeholders on a regular basis, translating complex concepts into accessible language

Siteimprove | Student Assistant in Revenue Operations　　　　　　　　　　**May 2022 – Dec 2022**
- Ensured consistency and quality of revenue and operational data across multiple systems
  Delivered ad-hoc reports and data insights to support sales team operations and strategic planning

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
GPA: 3.6/4.0

Hamedan University of Technology, BSc in Robotics Engineering　　　　　　　　　　**Sep 2014 – Sep 2018**
GPA: 3.8/4.0

Skills & abilities

- Programming: Python, SQL
- Data Analytics Tools: NumPy, Pandas, Scikit-Learn, Power BI, Matplotlib, Airflow
- ML Tools: PyTorch, TensorFlow
- Other: Git, Microsoft Azure, FastAPI

Projects

End-to-End Traffic-Accident Forecasting Pipeline GitHub　　　　　　　　　　**Apr 2025**
- Transformed and engineered features from time-series traffic accident data to uncover patterns and trends
- Developed several forecasting models and conducted A/B testing to compare and evaluate the performances
- Deployed a FastAPI-based service to enable real-time accident risk prediction

Certifications

IBM | Exploratory Data Analysis for Machine Learning　　　　　　　　　　**Mar 2025**
- Data modeling and statistical analysis in Python to prepare datasets for machine learning models