Rasoul Samei

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PROFESSIONAL EXPERIENCE

UNIVERSITY OF BERGAMO   **Bergamo, Italy**
Machine Learning Tutor   **Mar 2023 – June 2023**

- Conducted group tutoring sessions emphasizing the practical applications of machine learning algorithms, enhancing students' hands-on skills.
- Provided comprehensive assistance to students on assignments, projects, and exams, focusing on machine learning and data analysis to bolster academic success.
- Cultivated a collaborative learning environment and offered technical support, ensuring students effectively grasped complex concepts and tools.

PALOOD INDUSTRIES   **Neyshabur, Iran**
Production Planning Intern   **Oct 2018 – Dec 2020**

- Analyzed production data to identify inefficiencies and implement cost-saving measures.
- Enhanced decision-making by integrating analytics into production planning.
- Optimized inventory management to minimize waste.

IA UNIVERSITY OF NEYSHABUR   **Neyshabur, Iran**
Teaching Assistant   **Oct 2014 – Feb 2015**

- Supported coursework and projects in Money, Foreign Exchange, and Banking.
- Guided students through Forex basics and financial concepts.
- Addressed student inquiries, enhancing understanding of course material.

Selected Project Experience

- Time Series Anomaly Detection for Industrial Machinery
    - Engineered a time series anomaly detection tool for monitoring industrial machinery, utilizing both supervised and unsupervised learning models to pinpoint irregularities in sensor data at a 40Hz frequency, culminating in an ensemble approach for prompt malfunction alerts and reduced equipment downtime.
- Product Recommendation System with Sentiment Analysis
    - Developed a nuanced product recommendation engine by conducting sentiment analysis with supervised learning techniques on customer reviews. Integrated Surprise library for behavior-based personalization and content-based filtering to enhance recommendation precision by factoring in sentiment scores and user-product interactions.

EDUCATION

Università degli Studi di Bergamo   **Bergamo, Italy**
Master of Arts in Economics and Data Analysis   **October 2021 – Present**

IAU of Neyshabur   **Neyshabur, Iran**
Bachelor of Arts in Business Management   **Oct 2010 – June 2015**

ADDITIONAL INFORMATION

- **Technical Skills:** Data Analysis, Machine Learning, R, Python, SQL, Git, Jupyter, Power Bi, Shiny, MS Excel, Data Mapping
- **AI Frameworks/Libraries:** Pandas,Tidyverse, Scikit-learn,Tidymodels, H2O, Matplotlib
- **Languages:** Persian (Native), English (Proficient), German/Italian/Arabic (Basic)
- **Soft Skills:** Effective Communication, Problem Solving, Team Collaboration, Adaptability, Conflict Resolution
- **Awards:** First Place at the Stat-Hackathon Competition, Università degli Studi di Bergamo, May/June 2021
    - Excelled in advanced analytics, feature selection techniques (PCA, MCA, FAMD), model selection, and data presentation using Python, R, and SAS.

ADDITIONAL EXPERIENCE

Professional Guitar Performer and Instructor, 2010 – 2021

- Engaged audiences and students in musical performances and instruction, honing communication, pedagogy, and audience engagement skills.