Shima Mahinnezhad

Location: Montreal, QC | Contact: (438) 979-9059 | Email: mahinnezhad.shima@gmail.com | LinkedIn

Profile
Enthusiastic and highly qualified M.Sc. student in Electrical Engineering with a strong foundation in computer science seeking a position in data science. Leveraging expertise in programming, machine learning, and AI and a history of innovative research projects in tabular data and data augmentation to effectively contribute to data-driven solutions and insights in a dynamic industrial environment.

Technical & Power Skills

Languages: Python, Python libraries for data science (Scikit-Learn, Matplotlib, Seaborn, TensorFlow, Keras), Machine Learning, and AI, C++.
Technologies Tools: Knowledge of Power BI, ETL process, databases (SQL), Excel.
Power Skills: Excellent communication, strong problem-solving skills, critical thinking, effective collaboration. Also recognized for Attention to detail, effective presentation skills, excellent time management.

Education & Certifications
- ✓ mthree Academy – Certificate in Foundations of SRE – Oct. 2024
  Key Subjects – Computer Architecture, IT Service Management, Linux, Financial Concepts, Scheduling and Automation, DevOps Foundations, Relational Databases and MySQL, Python, SRE Concepts, Implementing SRE.
- ✓ École De Technologie Supérieure - Montreal, QC - M.Sc. Electrical Engineering – 2022 - Present
- ✓ Islamic Azad University - (IAU), Tehran, Iran - B.Sc. Computer Science - 2018 - 2022

Experience
ÉCOLE DE TECHNOLOGIE SUPÉRIEURE - RESEARCH ASSISTANT - MONTREAL, QC – 2022 - PRESENT
- ✓ Designed and implemented data-driven solutions for novel sensor systems by collaborating with three PhD students, utilizing machine learning algorithms to improve sensor accuracy.
- ✓ Spearheaded data collection and dataset creation for printed sensors, generating a dataset of over 120 features to enhance sensor calibration accuracy.
- ✓ Authored and presented a paper, "Data Augmentation and Class Imbalance Compensation Using CTGAN," at IEEE I2MTC, showcasing innovative solutions for dataset enhancement and receiving positive peer recognition

École de Technologie Supérieure - Volunteer/Mentor - Montreal, QC – 2023
- ✓ Mentored four international students by addressing academic challenges through customized learning strategies, resulting in a 30% improvement in academic performance and integration.
- ✓ Delivered tailored presentations and one-on-one sessions to convey technical and academic concepts effectively, improving students' comprehension by 40%.

SNAPP! - DATA SCIENCE INTERN - TEHRAN, IRAN - 2021
- ✓ Extracted and integrated large-scale datasets (over 10,000 entries) from databases, APIs, and external sources using Python and SQL.
- ✓ Performed data cleaning and preprocessing using Python libraries (e.g., Pandas), reducing inconsistencies by 50% and ensuring data readiness for analysis.
- ✓ Conducted exploratory data analysis using Python libraries (Matplotlib, Seaborn) to uncover actionable trends and anomalies, leading to a 20% improvement in business decision-making efficiency.