



Lablack Mourad

R & D Machine Learning

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- Algerian

Social Network

- Github Project Page Link
- LinkedIn Page Link

Languages

- Arabic
- French
- English
- Chinese

Programming

- Python
- Rust
- C++
- Java
- JavaScript
- Html/css
- SQL
- Latex
- Git

Frameworks

- Pytorch
- Tensorflow

Education

- 2017 – currently **PhD** Dalian University of Technology
Focus: Deep Learning for Multi-dimensional data predictions.
Research topic: Spatial-Temporal traffic behaviour forecasting.
Technologies: Probabilistic Diffusion Models, Stat Space Modeling (SSM), Recurrent Neural Networks (RNN), Convolution Neural Networks (CNN), Graph Neural Networks (GNN), Generative Adversarial Network (GAN), Python, Pytorch, Tensorflow.
- 2016 – 2017 **Chinese language** Dalian University of Technology
Learning the basics for listening, speaking, reading and writing for the level of HSK4.
- 2014 – 2016 **Master** University of Oran 1 Ahmed Ben Bella
Field: Management of information systems for decision.
Focus: Performing multidimensional analysis at high speeds on large volumes of data from a data warehouse, data mart, or some other unified, centralized data store.
Technologies: OLAP (Online transaction processing), OLAP cube (array-based multidimensional database that makes it possible to process and analyze multiple data dimensions much more quickly and efficiently than a traditional relational database), ETL (extract, transform, load), SQL, JAVA.
- 2011 – 2014 **Bachelor** University of Oran 1 Ahmed Ben Bella
Field: Sciences and technology of information and communication.
Research topic: Manage the load of a production chain with multi-agent system.
Technologies: Multi-agent systems, JAVA.

Publications

- 2023 **Spatio-Temporal State Space Probabilistic Diffusion Model for Traffic Forecasting (Under review)**
Mourad, L., Shuo, Y., Shen, Y., Thippa R. G., Sira, A., Gabriel, A. S., Peng, L.
IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEM
- 2023 **Long-sequence model for traffic forecasting in suboptimal situation (Under review)**
Mourad, L., Shuo, Y., Shuai, X., Shen, Y.
18th ACM Workshop on Mobility in the Evolving Internet Architecture (MobiArch'23)
- 2023 **Spatio-Temporal Graph Mixformer for Traffic Forecasting**
Mourad, L., Shen, Y.
Expert Systems with Applications
- 2019 **ASTIR: Spatio-Temporal Data Mining for Crowd Flow Prediction**
Mourad, L., Qi, H., Shen, Y., Yin, B.
IEEE Access

Working Experience

- 08-2018 – 09-2018 **Audit** Maghreb Emballage, Oran, Algeria
I reviewed the IT department and the company databases. I proposed enhancement to the database structure and improvement to internal software.
- 08-2016 – 09-2016 **Internship** Maghreb Emballage, Oran, Algeria
Database and network management.

Awards

- 2016 **Scholarship** Algeria
After passing a national wide contest, I have obtained a full scholarship from the Algerian government in conjunction with the Chinese government to pursue my doctoral studies aboard.

Projects

Android App	A mobile application to manage the renting of multiple properties and keeps a history of all previous activities and construct customers profile based on the quality and preferences of them stay. The app is a native android app and was done using java language.
Multi-platform	A software to manage a restaurant with internal and external networking capabilities. The software includes three different mobile apps and a desktop app. The software covers ordering, targeted notifications from the kitchen, real-time administration overview, external shipping overview, and some extra features such as svg coupons generation, encoded safe warehouse for digitized external documents and messaging with alert from the center desk. The mobile app are native android apps created using java language and the desktop app is multi-platform app created using QT technologies implemented in c++ and python.