Jamal Boussouf

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PROJECTS

Overcoming Speech Recognition Challenges with GAN based Solutions Nov 2022 – fev 2023
Nador University *FPN, MOROCCO*

- Application of deep learning techniques to enhance speech recognition in different environments, including noisy conditions.
- Convolutional Neural Network (CNN) model achieved high accuracy in clean audio but struggled with increased noise levels.
- Attempted use of a simple autoencoder for noise removal led to a decline in classification performance, emphasizing the need for advanced denoising techniques.
- For more information: github/Overcoming-Speech-Recognition-Challenges-with-GAN-based-Solutions

Elliptic Curve Cryptography June 202 2 – juil 2022
Nador University *FPN, MOROCCO*

- Accelerating Elliptic Curve Algorithms: Testing Techniques for Enhanced Speed in ECDH and ECDSA
- Exploring Elliptic Curve Cryptography: PARI/GP Implementation for ECDH and ECDSA in Python
- Testing of several algorithms such as NAF, Window-NAF and other algorithms to verify the signing and verification speed of ECDSA.
- For more information: github/Elliptic-Curve-Cryptography

Secure P2P chat application using java Feb 202 2 – juil 2022
Nador University *FPN, MOROCCO*

- Secure P2P Chat Application: Proposal for a secure chat application implemented in Java.
- System architecture resembles a complete and fully connected graph.
- Communication between nodes involves secure packet types.
- Secure P2P chat application in Java with decentralized network architecture, AES key exchange using RSA algorithm, and secure communication channels without a server.
- For more information: github/Confidential-secure-and-optimal-communication-P2P

EDUCATION

Master in Data Science and Intelligent System Nador, MOROCCO
Multidisciplinary Faculty of Mohammed Prime Nador *Aug. 2022 – current students*

First year:

- ∗ Introduction to AI and Data Science
- ∗ Data Analysis
- ∗ Data bases such as SQL (Oracle) NoSQL (aws simpleDB, MongoDB, firebase)
- ∗ Web technology with Java EE and Flask
- ∗ Data security

Bachelor in Computer Science, Network and web system administration Nador, MOROCCO
Multidisciplinary Faculty of Mohammed Prime Nador *Aug. 2018 – May 2022*

Third year:

- ∗ Digital signature using elliptic curves
- ∗ Software Development (Java)
- ∗ System Development
- ∗ Web Development (PHP, XML)
- ∗ Networking (packet tracer, GNS3)

Second year:

- ∗ Introduction to C programming
- ∗ Data Structure with C
- ∗ OS (linux)
- ∗ probabelity and statistic

First year:

- ∗ Powerful mathematics background
- ∗ Physics
- ∗ Algorithms

Degree in Physical Sciences and Chemistry Nador, MOROCCO
Farkhana College *Aug. 2015 – May 2018*
Third year:

- ∗ Basis of Mathematics
- ∗ Basis of Physics and Chemistry

VOLUNTEERING

Treasurer of the club FPN, Nador, MOROCCO
I2A club *April. 2023 – Current*
Organizer of hackathon in AI FPN, Nador, MOROCCO
I2A club *Jun 2023*

TECHNICAL SKILLS

Languages: Java, Python, C, SQL (Oracle), NoSQL(MongoDB, Firebase), JavaScript, HTML/CSS
Frameworks: Spring boot, Flask
Developer Tools: Git, AWS cli, VS Code, Visual Studio, PyCharm, IntelliJ
Libraries: pandas, NumPy, Matplotlib, cypari