



# Soknan KOUM

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## ABOUT ME

A thriving learner who always get through everything to get educated and defining its own success. Being part in workshop, sharing sessions as well as volunteering work have always been and will always be my passion.

## SKILLS

- **Programming languages:** Python, R, Java, and C++
- **Microsoft Office:** Upper-Intermediate Level (Word/Excel/PowerPoint)
- **Database Management:** MySQL, SQL Server
- **Machine learning:** Regression, Classification, Clustering
- **Web Development:** Basic (HTML, CSS, JavaScript)
- **Version Control:** Git, GitHub, Streamlit
- **Data visualization tools :** PowerBI and SAP
- **Statistical Analysis:** Hypothesis Testing, ANOVA

## WORK EXPERIENCES

10/2024 - Present

ITC (AMS Lab), Phnom Penh

### Research on NLP- AMS Lab

#### Khmer Automatic Text Summarization using ML

- Collected and aggregated sports-related data from multiple sources using web scraping techniques.
- Cleaned and preprocessed raw data
- Researched and evaluated various pre-trained machine learning models for data analysis and prediction tasks.
- Developed and implemented machine learning models, integrating them with pre-trained models to enhance performance.

07/2024 - 09/2024

MPTC, Phnom Penh

### Data Analysis Intern

#### 5G Auction Fee Analysis

- Collected and analyzed data from multiple sources, including government publications and industry reports
- Researched public benchmarks to study and analyze trends in 5G auction fees globally
- Utilized data modeling and statistical analysis techniques to provide actionable insights for strategic decision-making

#### Satellite Frequency Analysis

- Data Entry the input data in Excel
- Clean the data and using **Power BI** Tools create clear and informative visualizations, making the data easier to interpret and analyze

## VOLUNTEER EXPERIENCES

03/2024 - 04/2024

ITC, Phnom Penh

### Data Analysis Volunteer

#### Student Tract Study

- Data Entry Using google form and store the input data in Excel
- Clean the data and using **Power BI** Tools as the data visualization
- Achievement up to 30% of get in touch with student after graduated

## PROJECT EXPERIENCES

03/2024 - 05/2024

ITC, Phnom Penh

### Business Analysis Project

#### Global Super Store Analysis

- Collected data from Kaggle and stored it in a SQL Server database.
- Connected the database to Power BI.
- Created data models and used DAX functions and machine learning to achieve prediction accuracy of over 99%.

12/2023 - 05/2024

ITC, Phnom Penh

### Machine Learning Project

#### Customer Churn Detection:

- Collected data from Kaggle and stored it in a SQL Server database.
- Connected the database to Power BI for data modeling and analysis.
- Used DAX functions and machine learning to predict customer behavior with over 83% accuracy.

#### Credit Card Fraud Detection:

- Collected data from Kaggle.
- Designed and implemented a fraud detection system using anomaly detection algorithms to identify fraudulent transactions in real-time.
- Using machine learning to predict with 97% accuracy.

## EDUCATION

03/2022 - Present

Phnom Penh - Cambodia

Student of **Institute of Technology of Cambodia** Majoring is **DATA SCIENCE** in **Department of Applied Mathematics and Statistics**.

01/2021- 2022

Battambang- Cambodia

Graduated from Grade 12 at **Preah Monivong High School**.

## LANGUAGES

- **Khmer** : Mother Tongue
- **English** : Intermediate Level
- **French** : Intermediate Level

## ACHIEVEMENTS

- Successfully completed the Standard, Intermediate and Advance level of **UNESCO UNITWIN Data Science Camp in Cambodia** with **Machine Learning** and **Hackathon** by the **Korean Ministry of Education**
- Successfully completed the Training Course on **What is Data Science?** where certified by an online non-credit course authorized by **IBM** and offered through **Coursera**

## ACTIVITY AND INTEREST

- **Reading Books:** Generally, I enjoy reading books relating to self-development.
- **Listening to music:** Currently, classical music got me so bad, yet, from time to time, I do listen to electronic one.
- **Watching movies:** Usually, at weekends, I give myself some time for movies. I often watch it on online platform and animation is my favorite genre.

## KEY CHARACTERISTICS

- A risk-taker
- Open-minded
- Self-discipline
- Patient and conscientious
- Commitment and Optimism
- Hard-working and flexibility

## REFERENCES

- **TOUCH Sopheak:**

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