



MAO SEDTHA

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SUMMARY

Motivated senior-year Data Science student at the Institute of Technology of Cambodia with expertise in data analysis, programming, and statistical modeling. Skilled in building machine learning models, developing computer vision systems, and implementing object detection projects. Committed to leveraging data-driven strategies to solve complex challenges and deliver impactful solutions. Strong communicator with a proven ability to collaborate effectively across disciplines.

WORK EXPERIENCE

Assistant data analyst intern / The SEARLE Company Ltd **September - October 2024**

- Analyzed data on medicine imports from various countries, providing actionable insights to support decision-making.
- Designed and developed dynamic dashboards and reports in Power BI to visualize import trends, country-wise contributions, and key performance indicators.
- Collaborated with team members to interpret findings and align visualizations with organizational objectives.

ACADEMIC PROJECTS

Fire and Smoke Detection in Complex Environments **November 2024 - Present**

- Designed and implemented a machine learning model to detect fire and smoke in complex environments.
- Applied advanced deep learning techniques using frameworks like PyTorch.
- Developed and evaluated the model to achieve high accuracy, supporting real-time emergency response applications.

Face Recognition Project **September 2024**

- Developed a face recognition system using TensorFlow to classify images into two categories: "sedtha" and "rak sa".
- Designed and trained a convolutional neural network (CNN) to achieve accurate face identification.
- Applied the system to real-world scenarios for reliable and efficient face recognition.

Loan Eligibility Prediction **June 2024**

- Analyzed loan applicant data to identify patterns and trends that affect loan approval decisions.
- Cleaned and processed data, conducted statistical analysis, and presented findings to improve decision-making processes.

EDUCATION

Institute of technology of Cambodia **2021 - Present**

- Major : Data Science

Anlong veng hight school **2015 - 2021**

ADDITIONAL INFORMATION

Technical Skills:

- Programming Languages : Python, C++, C, SQL
- Tools and Technologies : PyTorch, TensorFlow, OpenCV
- Machine Learning: Classification, object detection, deep learning

Languages:

- Khmer (Mother Tongue)
- English (Intermediate)
- French (Beginner).

Certifications:

- Data Science Camp (UNESCO UNITWIN in Cambodia March-2023)
 - SAP Analytics Cloud and Build Apps training session (Asian data science explorers April-2024)
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