Musab Ahmed Adam Yagoub

Al Gadarif - Sudan

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Education

- **Sudan University of Science and Technology**   2023
  Bachelor of Engineering (Honours) in Electrical Engineering (Control Systems)
  Second Class - Division one

Experience

- **Sudanese Electricity Distribution Company Limited**   5/1/2023 - 31/3/2023
  Engineer Intern
  Joined Sudanese Electricity Distribution Company Limited as intern in department of control systems and automation.

- **Banan IT**   1/6/2023 - 31/5/2025
  Software developer
  Designs and develops web applications using various technologies.

Skills

- Programming Languages : Python , C++
- Programming Frameworks : Scikit-Learn , Pytorch

Projects

- **Arabic sentiment analysis**

  I developed a sentiment analysis model for Arabic social media by fine-tuning a pre-trained AraBERT model using the Hugging Face transformers library on a public dataset of Arabic tweets. This model achieved an F1-score of 80% on the validation set, demonstrating strong generalization and the effective application of state-of-the-art NLP techniques.

- **Text Summarization**

  I fine tuned Gemma-7b-it model using Low-Rank Adaptation (LoRA) to enhance text summarization capabilities efficiently. The fine-tuning process focused on optimizing the model to produce accurate and concise summaries across diverse text samples. Performance was evaluated using the ROUGE metric.

- **Rohlik Orders Forecasting**

  Developed a machine learning model to forecast orders for an e-grocery store using historical data as part of a Kaggle competition. I used tree-based models, including LightGBM, CatBoost, and HistGradientBoost, with a weighted ensemble and root mean squared error as metric. Applied advanced data preprocessing and feature engineering to align with real-world demand forecasting requirements.

- **Named Entity Recognition (NER) for Location Extraction**

  I fine-tuned a RoBERTa model to identify and extract location names from text. This project was a ML competition in Zindi platform hosted by Microsoft, where I achieved a silver medal.

Awards

- 10th in Sudan and top 1% of all competitors in Zindi AI/ML competitions platform.

- 21st place out of 1000+ teams as a solo competitor (top 2%) in the Rohlik Orders Forecasting Challenge on Kaggle, hosted by Rohlik Group (E-grocery supermarket).

- 53rd out of 1000+ teams (top 5%) and silver medal as solo competitor in African Credit Scoring Challenge in Zindi AI/ML competitions platform.

- 58th place and earn silver medal as a solo competitor in the Zindi competition Microsoft Locations Mentioned Recognition. Hosted by Microsoft, the competition awarded participants a $100 voucher for Microsoft certification exams.

- 154th place out of 2,400+ teams as a solo competitor (top 6%) in the Binary Prediction of Poisonous Mushrooms competition on Kaggle.

Online Courses

- Linear Algebra for Machine Learning and Data science (DeepLearning.AI)
- Calculus for Machine Learning and Data science (DeepLearning.AI)
- Deep Learning and Neural Networks (DeepLearning.AI)
- Convolution Neural Networks (DeepLearning.AI)
- Generative AI with Large Language Models (DeepLearning.AI)
- Introduction to Retrieval Augmented Generation (Duke university)
- Machine Learning parameters Optimization (Coursera Networks)