Ann Naser Nabil

AI Engineer | Applied Data Scientist

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Work Experiences

Somikoron AI   Part-time | Remote | NY, USA
Data Science Intern   *Jan 2024 – July 2024*

- Designed and implemented an NLP-based news recommendation system using spaCy and NLTK, processing 50,000+ articles and boosting user retention by 20%
- Built automated real-time data extraction pipeline with Python and SQL, covering 50+ countries, reducing manual processing time by 75%
- Integrated AI-driven recommendation engine into existing infrastructure using FastAPI, improving system performance and increasing daily active users by 100%
- Conducted A/B testing to optimize model accuracy, enhancing content delivery efficiency by 15%

Technical Skills

- **Programming Languages:** Python, SQL, Bash
- **Machine Learning & AI:** NLP, Predictive Modeling, Deep Learning, TensorFlow, PyTorch, Scikit-Learn, A/B Testing
- **Data Analysis:** Pandas, NumPy, Statistical Analysis, Econometrics, Data Visualization, Time Series Analysis
- **Tools & Technologies:** Git, Jupyter Lab, Flask, Streamlit, Render, Docker, Kaggle, Colab, Spyder, PyCharm,
- **Databases:** PostgreSQL, MySQL, SQLite
- **Operating Systems:** Linux (Garuda, Ubuntu), Windows

Projects

Disease Prediction and Drug Recommendation System   *Feb 2025 – Present*

- Engineered an AI-powered web application using Python and TensorFlow, achieving 85% accuracy in predicting 50+ common diseases
- Processed 10,000+ medical records with Scikit-Learn to train predictive models and drug recommendation engine
- Deployed on Render with FastAPI, serving 100+ monthly active users and achieving a 95% satisfaction rate

Intelligent Movie Recommendation Engine   *Feb 2023 – Present*

- Developed a personalized recommendation system using TMDB API and NLP techniques, processing 100,000+ movie records
- Implemented mood-based filtering with PyTorch, increasing user interaction rates by 30%
- Designed responsive UI with Streamlit, achieving real-time data fetching in under 2 seconds

AutoMLBench – Automated ML Model Benchmarking (Python Library)

- Supports classification, regression, and clustering with automated model comparison.
- Includes feature engineering, performance visualization, and support for XGBoost, LightGBM, and CatBoost.

TidyFlow – Lightweight Data Preprocessing Toolbox (Python Library)
- Modular functions for cleaning, encoding, scaling, and transformation.
- Integrates seamlessly with Pandas & Scikit-learn with smart preprocessing suggestions.

FireViz – Fast & Simple Data Visualization (Python Library)
- Supports multiple plot types (scatter, bar, heatmap, treemap, network, etc.).
- Built-in EDA functions with automatic handling of Pandas DataFrames.

Publications

Does Institutional Quality Matter for Financial Development? Evidence from Six Asian Emerging Economies
7th SANEM Annual Economists' Conference (SAEC) 2024

Education

Master of Science   *Nov 2024 – Present*
Dept. of Economics, Jahangirnagar University
Relevant Coursework: Health Economics, Political Economy, Advanced Macroeconomics, Advanced Microeconomics

Bachelor of Science   *Feb 2018 – Oct 2024*
Dept. of Economics, Jahangirnagar University
Relevant Coursework: Econometrics, Statistical Analysis, Research Methodology

Bachelor of Science (Unfinished)   *Feb 2017 – Dec 2017*
Dept. of Physics, Shahjalal University of Science and Technology
Completed Coursework: Advanced Mathematics, Classical Mechanics, Thermodynamics, Waves and Oscillations, Physics Laboratory