

Abdullah Al Mahmud Khosru



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🌐 Mahmud Khosru

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🔗 Website

👤 Profile

Passionate about data analytics, machine learning, and AI also dedicated to mastering Python, SQL, Statistical Modeling, and Deep learning. Responsible, motivated, quick-learning individual proficient in enhancement, implementation, testing, and debugging.

🎓 Education

04/2024 – present
Erlangen, Germany

M.Sc. in Artificial Intelligence

FAU Erlangen-Nürnberg

Pattern Recognition | Deep Learning | Data Engineering | Business
Intelligence | Computer Vision | Cognitive Neuroscience |

01/2016 – 01/2020
Dhaka, Bangladesh

B.Sc. in Computer Science and Engineering

International University of Business Agriculture and Technology

CGPA achieved 1.94 (German Grading Scale).

Data Structure & Algorithm | SQL | Java | OOP | Software Engineering |
Calculus | Numerical mathematics | Linear Algebra |

💼 Work Experience

04/2020 – 06/2023
South Carolina, USA

Data Analyst (Remote)

Turnkey Audience 📧

Task:

- Data preparation & analysis
- Data Scrapping & Data mining
- Data visualizations (Power-Bi)
- Email campaign
- Real-time Audience Tracking

🧠 Skills

Programming Languages

Python, SQL, R, Javascript, VBA

Data Analytics

Pandas, NumPy, Matplotlib, Plotly, Seaborn, Qlik
Sense, RapidMiner, MS Excel, PowerBi

Machine Learning and AI

Sklearn, PyCaret, NLTK, PyTorch,
TensorFlow, Keras, OpenCV, Hugging Face

Databases

SQL Database (MySQL), Microsoft Access

Thesis

The Rise of Big data Clustering on Cloud Computing: More Flexible or Not

Projects

Analyzing the Relationship Between Current Health Expenditure and GDP Growth in S-America

Developed an automated Python pipeline to analyze the relationship between health expenditure (% of GDP) and economic growth across 12 South American countries (2014–2023). The project involved extracting, cleaning, and reshaping World Bank data, storing results in CSV and SQLite formats. Analysis revealed a weak positive correlation, suggesting health expenditure influences economic performance alongside other factors. Tools: Python (pandas, requests, sqlite3), ETL pipeline design and data visualization

Market Basket Analysis using Apriori algorithm

Leveraged the Apriori algorithm and Python for Market Basket Analysis, unveiling product associations and customer purchasing patterns. Resulting insights empowered targeted marketing and sales strategy enhancements.

Cat vs. Dog Image Classification System

Crafted an accurate image classification system using Python and TensorFlow to discern cat from dog images. Employed advanced CNN techniques, optimizing for exceptional accuracy. Showcased expertise in deep learning and TensorFlow for practical image classification challenges.

Interactive Sales Dashboard Development with PowerBI

Developed an interactive sales analysis dashboard using Power BI, facilitating exploration of sales data by product categories, budgets, forecasts, and periods. The dashboard empowers strategic decision-making through actionable insights.

Online Bus ticket Management system

Developed a web application for Online Bus Ticket Management System, integrating HTML, CSS, JavaScript, php, and SQL Database (MySQL) for seamless booking, management, and tracking. Achieved user-friendly interface and secure payment gateways for enhanced user experience and transactional safety.

Languages

English

B2(Full Professional Proficiency)

Bangla

Native language

German

A2(Elementary Proficiency)