

BEGAD AHMED GOUMAA

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TECHNICAL SKILLS

Programming: Python, C/C++, SQL, HTML, CSS

AI/ML: Numpy, Pandas, Matplotlib, Seaborn, sklearn

EDUCATION

Arab Academy of Science & Technology

Aug 2023 - Aug 2027

B.S. Artificial Intelligence

- **Concentration:** Data Science
- **Relevant Coursework:** Machine Learning, Programming for AI, Fundamentals of Data Science, Database Systems Design, Embedded Systems & IoT, Networking, Operating Systems, Computer Architecture, Data Structures & Algorithms, Object-Oriented Programming, Probability & Statistics

PROJECTS

Enterprise Network Design – SmartTech International | *Cisco Packet Tracer, OSPF, Static Routing, VLANs, ACLs, DHCP, DNS*

- Designed and implemented a multi-branch enterprise network supporting 2,000+ hosts across Egypt and the UAE
- Applied IP subnetting and configured both static and dynamic routing (OSPF) for inter-branch connectivity
- Deployed key services including DHCP, DNS, mail, and web servers with centralized access
- Secured the network using ACLs, firewalls, VLAN segmentation, and WPA2 wireless encryption

Energy Consumption Prediction – Machine Learning | *Python, Pandas, Matplotlib, Scikit-learn, GridSearchCV*

- Cleaned and preprocessed the Household Electric Power Consumption dataset using imputers, encoders, and feature selection
- Conducted detailed univariate, bivariate, and multivariate data visualizations to identify trends and correlations
- Applied feature scaling and cross-validation to prepare data for machine learning pipelines
- Trained and evaluated multiple regression models, optimizing performance using GridSearchCV and comparing results

LEADERSHIP & ACTIVITIES

Rugby Player, Alex Rugby Club – Current

- Actively competing and training in team-based, high-performance sport requiring strategic thinking, discipline, and physical endurance

Handball Player, Alexandria Sporting Club – Former

- Played competitively; developed teamwork, agility, and focus through years of commitment to the sport