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SUMMARY

I am a senior student at Ahram Canadian University, specializing in Network with a robust foundation in computer science, AI, and cybersecurity. I have a proven track record of developing efficient and innovative solutions, backed by hands-on experience in various programming languages and frameworks. My passion lies in leveraging technology to solve complex problems, with specific expertise in penetration testing and vulnerability assessment.

PROFESSIONAL EXPERIENCE

Data Annotator | TELUS International
2022 - 2023

- Accurately labeled and annotated data following comprehensive project guidelines.
- Made justified decisions on ambiguous content by applying critical thinking to preserve dataset integrity.
- Consistently adhered to established data labeling standards and protocols, ensuring the highest quality and reliability of data.

EDUCATION & CERTIFICATIONS

Bachelor of Computer Science | Ahram Canadian University
2021 - 2025
GPA: 3.3

American Diploma | Smart Vision International School
2018 – 2021

Certifications:

1. **Google Cybersecurity**: Python, Linux, SQL, packet analysis, Splunk, Threat and vulnerability analysis.
2. **IBM Data Analysis**: Excel, SQL, Relational Databases, Python, Jupyter Notebooks, Cognos Analytics.
3. **IBM Data Science**: Machine learning (supervised and unsupervised), python, SQL.
4. **CICSO CCNA**: Routing, Switching, Troubleshooting, Standards, and Protocols.
5. **EF SET (English):** C2.

PROJECTS

COVID-19 Data Analysis and Visualization
Technologies: Python (Pandas, Matplotlib, Seaborn)

- Conducted extensive data analysis and visualization of COVID-19 trends.
- Presented findings through interactive Jupyter notebooks and dashboards.

Lung Cancer Prediction

Technologies: Python (Pandas, Scikit-learn, Matplotlib, Seaborn), Machine Learning (Logistic Regression, Random Forest)

- Built a classification model to predict the likelihood of lung cancer based on health survey responses.
- Conducted exploratory data analysis (EDA), data preprocessing, feature engineering, and model selection.
- Utilized Recursive Feature Elimination (RFE) and hyperparameter tuning with GridSearchCV to optimize model performance.
- Tested multiple classification models, including Support Vector Classifier (SVC), Decision Tree, and Random Forest, with Random Forest achieving the best performance.
- Addressed class imbalance through data manipulation and performance evaluation using cross-validation and classification reports.

ELT Pipeline with PostgreSQL and Docker

Technologies: Docker, PostgreSQL, Python, Docker Compose

- Developed a fully containerized ELT (Extract, Load, Transform) pipeline to move data between two PostgreSQL databases.
- Utilized Docker Compose for environment setup and management, ensuring easy scalability and isolation.
- Extracted data from the source PostgreSQL database using pg_dump, transferred it, and loaded it into a destination database with psql.
- Implemented error handling and retry mechanisms for robust database connections.
- Configured inter-container communication within the Docker network to ensure seamless data flow.
- Created a Python script to automate the ELT process and manage data movement between containers.

Cipher Encryption and Decryption Web App
Technologies: Full Stack (HTML, CSS, JavaScript, Flask, Python)

- Built a full stack web application for text encryption and decryption using various cipher algorithms.
- Ensured reliability and security through thorough testing.

Small Office Network Design Project

Technologies: Cisco Packet Tracer, VLAN, DHCP, IP Phones, Routing

- Designed and implemented a small office network using Cisco Packet Tracer, including features such as VLANs, inter-VLAN routing, and DHCP.
- Configured a Layer 3 switch for inter-VLAN routing to enable communication between different departments (management, sales, and IT).
- Set up a separate VLAN for IP phones, ensuring efficient voice traffic handling.
- Designed the network topology with a scalable structure, supporting future expansion through trunking and clear segmentation.
- Documented the network lifecycle from planning and configuration to testing and final presentation, including IP addressing, device setup, and troubleshooting reports.
- Delivered a final report and presentation, showcasing network design and configuration steps.

SKILLS

- **Programming**: JavaScript, SQL, C++, C, Python, Bash
- **Tools**: Git, GitHub, Linux, Data Analysis, Power BI, Jupyter Notebooks
- **Cybersecurity:** Penetration Testing, Vulnerability Assessment, Packet Analysis, Splunk
- **Networking:** Routing, Switching, Troubleshooting
- **Soft Skills:** Problem Solving, Analytical Thinking, Self-Learning, Time Management