Enes Polat

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Education

Toronto Metropolitan University (formerly Ryerson University) Toronto, Canada
Bachelor of Science in Computer Science (Hons) *Sep. 2022 – Apr. 2025*

Experience

Data Analyst Intern May. 2025 – Dec. 2025
Ontario Power Generation *Pickering, ON*

- Collected, analyzed, and processed large datasets using **Python** and **SQL** to support fleet-wide initiatives, ensuring data accuracy and consistency.
- Developed **Power BI** dashboards with interactive visualizations to track performance metrics, identify trends, and enhance decision-making in the Human Performance program.
- Automated data pipelines to streamline data extraction, transformation, and loading **(ETL)** processes, improving data accessibility and reporting efficiency by approximately **30%** through reduced manual intervention and faster data processing.
- Conducted data validation and quality assurance checks to identify anomalies and ensure compliance with nuclear safety protocols.

Projects

Brain Tumor Segmentation | *Python* Dec. 2024

- Developed a U-Net model for brain tumor segmentation, achieving a Dice Coefficient of **0.91** and an F1-score of **0.89**, showcased in deep learning, computer vision, and medical imaging.
- Processed over **1,000** MRI images with techniques such resizing **256x256**, normalization, and data augmentation to enhance model generalization, achieved a Jaccard Index of **0.87** and precision of **0.90** on test data.
- Automated an end-to-end machine learning pipeline for segmentation mask generation, evaluation, and visualization, incorporating tools such **TensorFlow**, **OpenCV**, and **Scikit-learn** to streamline model deployment and interpretation.

Database for Shoppers Drug Mart | *SQL, Python, Bash* Nov. 2024

- Designed a Point of Sale (POS) database system for Shoppers Drug Mart using **SQL** and **Python**, with **6+** relational tables supporting core functionalities like transaction recording, inventory updates, and customer loyalty point tracking.
- Implemented advanced queries and normalization techniques (BCNF/3NF) to manage inventory, track employee transactions, and maintain customer profiles, ensuring **100%** data integrity and optimized performance.

ChatGPT Survey | *Python* Sep. 2023

- Constructed a survey via **Python**, utilizing **Pandas** and **Matplotlib** to analyze and visualize survey data from **500+** responses, creating interactive charts (e.g., bar graphs, pie charts) to present insights on demographics, user preferences, and AI adoption trends. Automated analysis of CSV files, improving efficiency by **30%** in data processing workflows.
- Designed modular functions for reusable data visualizations, including methods for vertical and horizontal bar graphs, pie charts, and custom annotations. Enhanced readability and decision-making by optimizing graphical presentation and automating **10+** visualizations tailored for diverse data sets.

Audio App Simulator | *Java* Apr. 2023

- Developed a text-based music store application in **Java**, enabling users to browse and manage a library of **100+** songs, audiobooks, and podcasts, with features like genre categorization, artist retrieval, and transaction processing. Supported **50+** search and playback operations through a streamlined interface.
- Applied **object-oriented programming** (OOP) principles (encapsulation, inheritance, polymorphism) to design a modular codebase. Utilized HashMaps, Collections, and interfaces to optimize data handling, improving processing efficiency by **40%** and ensuring seamless management of up to **1000+** items in the database.

Technical Skills

Languages: Python, Java, C/C++, SQL, JavaScript, HTML/CSS, Elixir, Haskell, Rust, Bash
Frameworks: React, Node.js, JUnit, FastAPI, Angular, Vue
Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Linux/UNIX, Emacs