

Luckman Qasim

EDUCATION

Memorial University of Newfoundland

GPA 3.81

Bachelor of Science in Computer Science

May. 2022 – May. 2025

Lahore Grammar School

GPA 4.0

High School (O/A Levels)

Aug. 2016 – May. 2021

EXPERIENCE

Machine Learning Research Trainee - Drug Discovery

September 2023 – Present

Memorial University of Newfoundland

St. John's, NL

- Led collaborative efforts with a supervisor on a transformative healthcare project focused on drug discovery, taking charge of a substantial dataset comprising 20,000+ files, each containing 1000+ lines of data. Through meticulous processing and cleaning, this dataset was augmented to encompass well over 1 million records.
- Conducted comprehensive literature reviews to remain at the forefront of developments in healthcare technology and machine learning, ensuring the project's alignment with the latest industry advancements.
- Managed end-to-end data processes with a keen emphasis on efficiency, utilizing diverse Python modules to guarantee the production of high-quality datasets tailored for robust machine learning model training.
- Actively engaging in the design and implementation of customized machine learning models, leveraging the capabilities of TensorFlow to unravel novel therapeutic solutions for specific diseases within the project's scope.

PROJECTS

Image Editor Application | *Python, Tkinter, customTkinter, Pillow, PixabayAPI*

- Developed a Python-based desktop application using the CustomTkinter library, enabling efficient loading, editing, and saving of images, and the option to customize interface with different themes to optimize user experience.
- Designed and implemented a feature-rich image editor with a range of filters, transformations, and enhancements.
- Integrated Pixabay API for seamless image search and direct import into the editor, enhancing user accessibility.
- Implemented an intuitive undo functionality, enabling users to effortlessly revert to previous image states.
- Developed a cache system for efficient data storage and management, enhancing application performance.

Email Keyword Filter and SMS Notifier | *Python, imaplib, smtplib, Python-dotenv*

- Designed and implemented a Python automation script to connect to email accounts using imaplib, facilitating seamless email retrieval.
- Implemented a sophisticated keyword-based email filtering system, empowering users to define specific criteria for identifying important emails.
- Engineered the script to send SMS notifications, via SMS gateway and smtplib, upon detecting emails that match predefined keywords in subjects, bodies, or other headers, enhancing overall accessibility.
- Designed the system with a user-centric approach, enabling instant SMS notifications for critical email content and optimizing convenience for end-users.

Kijiji Web Scraper and Email Notifier | *Python, BeautifulSoup, Requests, SQLite, Python-dotenv, smtplib*

- Developed a Python-based web scraper to monitor Kijiji, an online classifieds platform, and automatically notify users of new listings via email.
- Implemented an automated system to streamline user searches, detecting and alerting them to newly posted ads on Kijiji, by proficiently utilizing BeautifulSoup and Requests for data extraction and smtplib for email notifications.
- Designed and implemented a database structure, using SQLite, to optimize performance, prevent duplicate notifications, and enhance the user experience.
- Ensured compliance with web scraping ethics and legal regulations, maintaining respect for website terms of service throughout the process.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL, MongoDB, JavaScript, TypeScript, HTML/CSS, LaTeX

Frameworks: React, Node.js, Bootstrap, Electron, Flask, Django, WordPress

Developer Tools: Linux, Windows, Git, GCP, AWS, Jupyter Notebook, VS Code, Docker, iOS, Android

Libraries: pandas, NumPy, Matplotlib, TensorFlow, scikit-learn, PyTorch, OpenCV, Pillow, Selenium

Coursework: DSA, OOP, ML, Computer Networking, Visual Computing, Nature-Inspired Computing