Sharjeel Mustafa

<u>mustafa7@uwindsor.ca</u> | linkedin.com/in/sharjeeliv | github.com/sharjeeliv

Sep 2020 – Aug 2024

TECHNICAL SKILLS

Languages: Python, SQL, Java, C/C++, JavaScript, HTML/CSS Technologies: Pandas, NumPy, PyTorch, Git, Flask, Neo4j, Matplotlib/Seaborne, Bootstrap, Spacy

B.Sc. Honours Computer Science, Software Engineering Specialization

Education

University of Windsor	Windsor, ON
Relevant Coursework: Databases, Software Engineering, Op Major GPA: 92%	perating Systems, Data Structure/Algorithms, Statistics
Experience	
Research Assistant	Jan 2024 – Present
University of Windsor	Windsor, ON
• Used Python and Pandas to perform data analysis o	
• Designed a text extraction pipeline to extract target section	ons from 30,000 documents , achieving 90% accuracy
R&D Data Scientist Coop	May 2023 – Dec 2023
Swift Medical	Toronto, ON
• Wrangled and analyzed over 180 million rows of time- Matplotlib , contributing to a research paper (to be pub	
• Contributed to a multimillion-dollar initiative by creasuch as fine-tuning LLMs on 12,000 clinical texts, impro	
 Validated models and extracted insights by creating like AUC, F1, and balanced accuracy scores, resulting in Handled end-to-end projects and presented findings a decision-making and prototyping of product features 	n another research paper (to be published) [1]
Research Assistant	${ m Sep} \ 2022 - { m Apr} \ 2023$
University of Windsor	Windsor, ON
• Researched machine learning for Time-Series Forecast	\mathbf{ing} and implemented an \mathbf{LSTM} model
• Utilized Git, Python, and NumPy to implement supporti	ng features such as dataset generation
Teaching Assistant	Jan 2023 – Apr 2023
University of Windsor	Windsor, ON
Supported the Software Development course by teachTaught concepts related to GUI, event-driven and concur	
Software Developer Coop Connecting with Technology	$\begin{array}{c} {\rm May} \ 2023-{\rm Aug} \ 2023 \\ Windsor, \ ON \end{array}$
- Designed a $Neo4j$ graph-data model, streamlining retriev	val compared to the previous relational model
• Developed an asynchronous CRUD backend with Java architecture to operate efficiently on highly connected gra	
• Collaborated with a cross-functional team to define softw	are requirements and lead technical discussions
Research Assistant	${ m Sep} \ 2021 - { m Apr} \ 2022$
University of Windsor	Windsor, ON
• Developed a program to assist professors in validating and formatted metadata using OCR and NLP	d migrating 1000's of articles to an online database with
• Implemented a layer architecture and multiprocessin using Flask and Bootstrap for easy access to the tool	${\bf ng}$ for efficient extraction and developed a web interface

• Automated a manual process, improving input time by 94% and saving professors dozens of hours