NIDA ZOHRA

60 Frederick St, Kitchener, ON
647.656.7808 | nidatzohra@gmail.com
LinkedIn | Github | Portfolio

CAREER RELATED SKILLS

- Advanced proficiency in data analysis tools like Python, SQL Server and PowerBI
- Competency in building ETL Pipelines on cloud platforms, such as GCP
- Proficient in delivering informative analyses reports through effective storytelling techniques

WORK EXPERIENCE

Data Analyst   January 2023 – May 2023
Ontario College Application Service, Guelph, ON
- Technologies used: Python, SQL, Azure DevOps
- Consulted with VP to gain clear understanding of customer requirements, which contributed to the successful completion of a tailored solution for prospective college applicants
- Applied data cleansing techniques to unstructured historical application data using Python and SQL, resulting in a highly accurate, reliable, diverse, and consistent applicant dataset
- Conceptualized custom evaluation metric for unsupervised machine learning algorithm, that validates the model's accuracy of 80% or higher for 50% of all college programs
- Collaborated with data science, applied research and product teams regularly, to solicit feedback and provide updates

Programmer Analyst   January 2022 – April 2022
Waterloo Regional Police Service, Cambridge, ON
- Technologies used: SQL, .NET, C#, JavaScript
- Tuned performance of SQL stored procedures and queries that reliably extract accurate personnel information to execute 90% faster
- Led discussions with end user to clarify preferences in front-end of web applications, which minimized the number of change requests to 0
- Enhanced data models representing confidential information of sworn and civilian members of the police service, which resulted in saving 3 hours of police paperwork every week

Mechanical Engineer   August 2019 – April 2021
QAS Arabia Ltd., Dhahran, Saudi Arabia
- Identified inefficiencies in inventory database management via reports generated using SQL which reduced delays in delivering projects
- Supervised the manufacturing process that led to decreasing the turnaround time by 25%
- Developed Standard Operating Procedures for operators that increased operational efficiency by 12%

Mechanical Engineer   September 2018 – July 2019
A to Z Technologies, Atlanta, USA
- Analyzed production rates from relational databases using SQL to optimize manufacturing processes, and presented comprehensive report to stakeholders
- Created detailed technical drawings and specifications for manufacturing and construction
- Collaborated with other engineers and stakeholders to ensure designs meet project requirements

PROJECTS

Auto Dealership Data Warehousing & BI, *Conestoga College, Kitchener, ON*
- Technologies used: SQL Server, SSRS, PowerBI
- Led the design and development of a robust data warehouse ensuring data quality and integrity, and created visually appealing reports and interactive dashboards for KPIs using SSRS and Power BI

College Program Recommender System, *Ontario College Application Service, Guelph, ON*
- Technologies used: Python, Scikit-Learn, Matplotlib, Git
- Built and validated a tailored recommendation engine using past application information which provides relevant program recommendations for over 80% of college applicants

Digital Transformation, *Waterloo Regional Police Service, Cambridge, ON*
- Technologies used: SQL Server, C#, .NET, TFS
- Contributed to the digital transformation of 5 police services via coherent branding and quick extraction of information across all digital tools which improved operational efficiency and accuracy

Real-Time Car Sales Analytics ETL Pipeline, *Conestoga College, Kitchener, ON*
- Technologies used: SparkSQL, Kafka, Hadoop, GCP
- Consumed data from an online car sales source using Kafka and enabled parallel processing, to process and analyze data in real-time providing prospective car buyers with valuable insights

EDUCATION

PG Certificate, Big Data Solutions Architecture April 2023
School of Applied Computer Science & Information Technology, Conestoga College, Kitchener, ON
- President's Honour List, June 2023
- Won popular vote for pitching the topic "Computer Vision" for an Open Education Resource publication released in January 2023

PG Certificate, Computer Applications Development April 2022
School of Applied Computer Science & Information Technology, Conestoga College, Kitchener, ON
- President's Honour List, June 2022
- Led the team through the complete SDLC to successfully deliver a web application for capstone project

Master of Science, Aerospace Engineering August 2018
Wichita State University, Wichita, KS, USA
- Devised the Modeling and Simulation of Flapping Wing Micro Aerial Vehicle using MATLAB and Simulink
- Specialization in aeronautical engineering under advisement of Dr. James Steck

Bachelor of Science, Aerospace Engineering August 2015
Mississippi State University, Mississippi State, MS, USA
- Validated flutter locations of various airfoil shapes using data extracted from wind tunnel experiments
- Specialization in aeronautical engineering with independent study on aeroelasticity

ACHIEVEMENTS/ACTIVITIES

- Ranked #2 in TH.0 HealthTech 2022 Hackathon - Mobile Application for Music Therapy
- Student representative at Waterloo Advisory Committee on Active Transportation for 2022
- Actively involved in leadership roles which require strategic time management and organizational skills