Miodrag Stosic

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SUMMARY

As a Fourth Year Computer Engineering student at Queen's University, I bring a versatile skill set and a passion for technology and innovation, with a keen interest in the financial sector. My experience in algorithmic solutions and data analytics, combined with proficiency in languages like Python and Java, enables me to solve complex problems and derive meaningful insights from data. Proactive and collaborative, I am eager to explore opportunities that will allow me to continue my professional career.

Technical Skills: C#, C++, Python, Java, SQL, Solid Works, Google Data Analytics, Git, CSS, Data Science, Data Analysis, HTML, Php, MS Word, Excel, PowerPoint, PowerBI, Tableau, Software Development, Teamwork, TensorFlow, LookerStudio

EDUCATION

B.Sc. (Eng.) Computer Engineering (4th Year) **Sept 2020 – Current**
Queen's University (Kingston, ON)

- Relevant Courses: Neural and Genetic Computing, Deep Learning and Machine Vision, Data Science, Database management, Object Oriented Programming, Algorithms 1, Data and information structures, Operating Systems, Probability and Random Processes, Economics, Engineering Design and Development, and Data Analytics.

EXPERIENCE

Queen's, Algorithmic Network & Trading Team, Software Developer **Sept 2022 – Present**
Kingston, ON

- Implemented a trading algorithm, employing Sector Rotational analysis and mean reversion strategies resulting in a 15% improvement in trade execution speed compared to previous models.
- Conducted Time Series Analysis, raising the algorithm's accuracy by ~20% and surpassed benchmark models by 10%.
- Applied Computational Statistics and Probability theories to optimize performance, enhancing the algorithm's efficacy.

Queen's, Hyperloop Design Team, Propulsion Design Engineer **Oct 2021 – Present**
Kingston, ON

- Worked with a team of six students with the goal of developing, designing, and implementing a propulsion sub-system.
- Led the research and design of a dynamometer, ensuring precise testing and analysis of the motor's functionality.
- Took charge of testing and analyzing the propulsion system within the hyperloop pod, utilizing MATLAB Simulink for comprehensive performance evaluation contributing to a ~12% improvement in system performance.

Custom Biologics, Summer Analyst **May 2022 - Aug 2022**
Etobicoke, ON

- Conducted comprehensive data analysis to support bioanalytical studies, utilizing tools like Python and SQL to manage, analyze, and interpret complex datasets.
- Supported IT infrastructure, troubleshooting minor IT issues and computer systems to ensure smooth daily operations.
- Collaborated with the RND team and refined biomarker analytical methods, contributing to accurate results.

PROJECTS

Early Warning of Ovarian Cancer System Machine Learning (Python, React.js, TensorFlow) (In progress)

- Developed a system using advanced machine learning techniques for early detection of ovarian cancer.
- Ensured data integrity through rigorous cleaning and validation on datasets from the National Cancer Institute.
- Conducted thorough testing of the user interface to ensure intuitiveness, efficiency, and aesthetic appeal.
- Committed to continuous monitoring and improvement post-deployment, based on real-world usage and feedback.

Phishing Email Detection (Python/Keras/LSTM)

- Designed and implemented a neural network model for phishing URL detection, enhancing cybersecurity measures.
- Applied LSTM (Long Short-Term Memory) models augmented with dropout layers, ensuring model adaptability.
- Conducted extensive testing and validation, achieving a high model accuracy of 97.5% and AUC-ROC score nearing 0.99, highlighting the model's capability to distinguish phishing URLs effectively.

Data Science Accelerometer-based Activity Classification Desktop App (Python, TensorFlow, Pytorch)

- Preprocessed the data by applying a moving average filter to reduce noise, detecting, and removing outliers, and normalizing the data for logistic regression.
- Trained a logistic regression model using the preprocessed training set and evaluated its accuracy on the test set.
- Developed a desktop application using Python and Tkinter/PyQt5, integrating the trained classifier to process input CSV files and generate output CSV files with corresponding labels.

AWARDS

- Leo & Mary Kenn Memorial Award in Applied Science Scholarship | Queens University
- Mildred K, Walters Awards | Queens University