KAMINI

Data Processor | Toronto, Ontario | +1(647)861-1762 | Gmail | Linkedin | Github

SUMMARY

Experienced IT professional with **a Bachelor's in Computer Science** from YMCA University, India. Currently pursuing a Artificial Intelligence and Data Science post-graduate certificate at Loyalist College, Toronto. Skilled in **Python, SQL, Power BI, Machine learning, and Deep Learning.** Working as a Data Processor at Toronto Business College. Dedicated to leveraging data science expertise for innovation and growth. Passionate about continuous learning and making a positive impact.

EDUCATION

Loyalist College in Toronto **September 2022 - April 2024**
Master's, Artificial Intelligence and Data Science

- Statistical Modelling and Inference, Machine Learning, Data Visualization, Data Warehousing, Business Intelligence, Computer Vision, Python, Mathematics for Data Science.

JC Bose University, YMCA University **August 2016 - April 2019**
Bachelor's, Information Technology

- Data Structures and Algorithms, Object-Oriented Programming, Database Management System, Principles of Software Engineering, Data Warehousing and Data Mining, Distributed Operating System.

PROFESSIONAL EXPERIENCE

Toronto Business College **Toronto, ON, Canada**
Data Processor *January 2024 - Present*

- Led an **AI chatbot** project using Natural Language Processing and Machine Learning**,** enabling students to obtain answers without in-person contact, resulting in a 30% increase in efficiency. Collaborated with cross-functional teams and utilizing Python, Flask, HTML, CSS, and JavaScript for development.
- Designed and implemented 15+ Power BI reports and dashboards, transforming raw data into insightful visualizations for informed decision-making. Proficient in DAX queries, ETL (Power Query), SQL and adept in publishing and report scheduling.

Code Ninjas in Markham **Markham, ON, Canada**
Coding Instructor *December 2022 - April 2023*

- Engaged 50+ children in dynamic coding activities, ensuring a fun and positive environment.
- Instructed and assisted students in Python, JavaScript, and Scratch documenting skill sets and progress in a meticulous tracking system. Fostered effective communication by providing constructive feedback to 30+ parents.

Qin1 **Delhi, India**
Coding Trainer *January 2020 - February 2022*

- Collaborated with the Teaching Technology and Content Development team, leading recruitment, interviewing and assessment of 20+ coding trainers.
- Delivered engaging courses to 100+ students, focusing on age-appropriate problem-solving in Python and other languages.

Abacus Desk IT solutions **Delhi, India**
Angular Developer *January 2019 - July 2019*

- Led a collaborative team effort to streamline processes and minimize paperwork, resulting in a 30% reduction in administrative workload by implementing a comprehensive Complaint Management System.
- Utilized HTML, CSS, JavaScript, PHP, Angular, and Ionic to develop an efficient app and portal for tracking complaints, resulting in a 60% increase in efficiency.
- Successfully achieved the dual objectives of reducing paperwork and enhancing complaint tracking through the seamless integration of technology.

SKILLS

Tools: Power BI, Tableau, Python NLTK, Git, Visual Studio
MS Office: MS Excel, MS Word, PowerPoint, Microsoft SQL, VBA
Programming Languages: Python, C/C++, MySQL, Java, SQL
Software Development: Design, Development, Testing, Problem Solving, Data Structures & Algorithms
Machine Learning & Frameworks: Data Analysis, Regression, Classification, Time Series Forecasting, Predictive Modelling, Tensorflow, XGBoost, Sklearn, NumPy, Pandas, Matplotlib, PyTorch, Large Language Model (LLM), BERT, Transformers
Cloud Technologies: Google Cloud Platform (GCP), AWS, Docker
Web/Mobile Technologies: HTML/CSS, PHP, SQL, Javascript, MongoDB, Angular, Ionic 3

CERTIFICATIONS

Microsoft Certified: Azure Data Scientist Associate (DP-100) (Expected Completion Date : April 2024)
Advanced Learning Algorithms by Deep Learning. AI & Stanford University, August 2022
Supervised Machine Learning: Regression and Classification, Stanford University, July 2022 Credentials
Getting Started with Data Analytics on AWS, Amazon Web Services(Coursera), April 2020 Credentials
Data structures and algorithms in Python, Coding Ninjas, February 2020 Credentials

PROJECTS & OUTSIDE EXPERIENCE

AI Powered Chatbot

- Spearheaded a bot project focused on Natural Language Processing (NLP) and machine learning, leveraging Flask, HTML, CSS, and JavaScript for robust and user-friendly development.
- Collaborated with cross-functional teams to conceptualize, design, and implement the bot, enhancing its capabilities through advanced technologies.
- Led the collection, cleaning, and preparation of data from diverse sources to facilitate analytical processes.
- Successfully integrated NLP algorithms to enhance the bot's understanding and responsiveness, contributing to a more interactive and intelligent user experience.
- Utilized Docker containers to streamline deployment and management processes, ensuring scalability and consistency across different environments for the AI-powered chatbot project.
- Played a key role in project planning, execution, and troubleshooting, ensuring the seamless integration of the bot project into the e-learning platform.

Spaceship Titanic Survival Prediction

- Employed Kaggle API to securely download "spaceship-titanic" dataset and configured dependencies.
- Conducted Exploratory Data Analysis (EDA) using Pandas, addressing missing values, and enhancing features.
- Built a machine learning pipeline with scikit-learn, creating binary classification variables and utilizing decision trees/random forests.
- Ensured feature consistency through standardization and visualized class distribution for balanced training.

Email Spam Classification

- Developed an SVM-based email spam classification model with text representation methods, including bag of words and advanced word embeddings using Python.
- Extensively tuned model hyperparameters, demonstrating precision and recall improvements.
- Evaluated models with a large test set, employing metrics such as precision, recall, f1 score, AUC and confusion matrices.
- Utilized advanced NLP techniques including Glove, and Word2Vec, to enhance email content understanding, for improved performance.

Customer Churn Prediction

- Analyzed over 10,000 historical customer records to uncover patterns and factors contributing to churn, facilitating informed decision-making for proactive customer retention strategies.
- Utilized Python (pandas, numpy) for data analysis and preprocessing.
- Implemented a variety of machine learning algorithms, including logistic regression, decision trees, and gradient boosting, achieving predictive models with an accuracy rate of over 85%.
- Conducted extensive feature engineering and hyperparameter tuning iterations to enhance model performance, resulting in a 15% improvement in accuracy compared to baseline models.