**SABIRAN THAPA**

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Objective: Passionate AI Developer eager to secure a dynamic position at XYZ Company, leveraging a robust background in artificial intelligence and machine learning. A dedicated and proactive professional with proficiency in developing cutting-edge AI solutions and algorithms. Committed to contributing innovative ideas and collaborating with cross-functional teams to enhance the company's technological capabilities and drive impactful results in the realm of artificial intelligence. Excited to apply my skills in machine learning, natural language processing, and deep learning to address complex challenges and drive the company's success in the rapidly evolving field of AI.

**QUALIFICATIONS**

* 2+ years of software development and support experience across a wide variety of industries
* Solid knowledge and experience with Object-Oriented programming
* Well-versed in business knowledge and its implementation in the industry
* Experience in working in a rapid-paced environment with the ability to juggle multiple projects
* Adaptive to new technology and fast learner, experienced working in both team and self-directed settings

**TECHNICAL SKILLS**

* Programming Languages: Python, C, C++, C#
* Machine Learning: Scikit-Learn, TensorFlow, PyTorch
* Big Data: Hadoop, Spark
* Data Visualization: Matplotlib, Seaborn, Tableau
* Tools/Technologies: HTML, CSS, XML, JavaScript, React, ASP.NET MVC, GIT, Web API
* Operating System: Windows, Unix/Linux, Mac
* Database: SQL Server, MongoDB, MySQL, Postgres
* Software Tools: Visual Studio Code, Jupyter Notebooks, Google Colab, Eclipse

**EDUCATION**

**Applied A.I. Solutions Development Program (Postgraduate)**  09/2023 –08/2024

George Brown College | Toronto, ON

KEY Courses/concepts:

Machine Learning

* Explored building Machine Learning models for tabular data.
* Explored in-depth Machine Learning using NLP and Computer Vision.
* Focused on building NLP models & Computer Vision models for text, image, and video analysis.
* Gained experience with professional tools and techniques such as Scikit-learn, NLTK, Spacy, Librosa, PyAudioAnalysis, and OpenCV.

Deep Learning

* Explored the development of Deep Learning models for a variety of use cases.
* Gained hands-on experience with professional tools and techniques such as PyTorch , Tensorflow, and Keras, focusing on the fundamentals of multi-layered Deep Neural Networks.

Applied Math Concepts for Machine Learning

* Studied the mathematical foundations of Machine Learning algorithms.
* Focused on exploring and implementing Machine Learning algorithms for text and audio analysis.
* Gained experience with current industry standard mathematical tools, techniques, and libraries.

Big Data Tools & Techniques

* Explored current tools and frameworks used in the visualization, streaming, and analytics of Big Data.
* Gained experience in the management of a big data project and created Big Data applications using tools such as Apache Spark and Apache Kafka.

Foundations of Data Management

* Explored data management principles with a focus on data governance framework.
* Applied best practices in metadata, master data and data quality management, root cause analysis, process design, data modeling, design, data integrity, and data privacy.

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Ethics & Law for Data Science

* Explored legal and ethical issues in data and AI integration.
* Gained perspective on international legal developments with implications for Canadian businesses, including privacy and intellectual property.

Data Visualization Techniques

* Studied data visualization principles and applied current industry best practices.
* Built effective data reports using popular Python and JavaScript libraries and interactive dashboards using tools such as Tableau.

Design Thinking for AI Solutions

* Focused on the hands-on application of Design Thinking in the development of A.I. solutions for various business use cases.
* Gained an understanding of human-focused, prototype-driven, innovative design processes.

**Academic Project**

**RestroAssist**

* Led data preprocessing and BERT model finetuning for a chatbot project aimed at SmartRestro.
* Collaborated with a multidisciplinary team of 5 to optimize NLP models including BERT, T5, and RAG.
* Developed a user-friendly chatbot interface using Flask for local testing and integration.
* Conducted thorough testing and evaluation, with RAG emerging as the top-performing model.
* Demonstrated expertise in Natural Language Processing (NLP) and deep learning frameworks such as TensorFlow and PyTorch.
* Documented project progress and collaborated closely with team members to integrate components into the final solution.

**Financial Sentiment Analysis**

* Utilized TensorFlow BERT for sentiment analysis on financial data collected from Kaggle.
* Applied object-oriented programming (OOP) principles and adhered to Google coding standards for robust codebase.
* Led model finetuning alongside a team of 2 to improve accuracy and performance on financial sentiment classification.
* Demonstrated proficiency in deep learning frameworks and natural language processing techniques.
* Contributed to the enhancement of financial decision-making processes through sentiment analysis insights.
* Documented project methodologies and collaborated effectively with team members to achieve project goals.

Web Scraping, Real Estate housing Prediction, Auto Feature Selector Tool, Covid Data Analysis, Text Classification, Prescription Parser, Movie Recommenders, Summarization, Segment Objects from background

**Diploma in Computer Programming** 01/2017 – 08/2018

Seneca@York Campus| North York, ON

**Bachelor in Electronics and Communication Engineering** 09/2008 – 09/2012

ACEM | Kathmandu, Nepal

**PROFESSIONAL EXPERIENCE**

Android App Developer 04/2022 – 12/2022

Revature | Reston, Virginia

* Developed native Android applications using Kotlin, ensuring UI responsiveness and compatibility across multiple devices/emulators
* Collaborated with a team of 5 to deliver an android application in less than a month, following proper coding standards
* Integrated third-party libraries like Dagger Hilt, Coil, Retrofit, Mochi, and RxJava3 for efficiency and performance
* Built 4 projects using clean architecture and MVVM pattern

Full Stack Developer 10/2019 – 09/2021

Crestline IT Services | Aurora,, ON

* Involved in all phases of SDLC, from requirement gathering to documentation, using agile scrum methodology
* Played a key role in feature implementation, enhancement, and code refactoring
* Worked on multiple legacy projects in ASP.Net, integrating new features and bug fixes
* Improved the payment system by integrating PayPal and Braintree into existing legacy ASP.NET projects
* Pioneered a cross-platform app using Flutter in under two months
* Integrated mobile app to App Center to automate the build, test, and distribution pipeline