Sunil Thapa

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SKILLS

- Programming Skills: Python, JavaScript, Java
- Technology Skills: TensorFlow, Keras, Scikit-learn, NumPy, Pandas, Git, Docker, NLTK, spaCy, JSON, NLP, MS Word, Excel, PowerPoint, Data ETL Methods (Extract, Transform, Load), Agile Scrum Methodology
- Database: MySQL, SQL, MongoDB
- Data Visualization: Tableau, PowerBI, Matplotlib, Seaborn
- Cloud Technology: AWS, GCP
- Analytical Thinking, , Adaptability, Interpersonal Communication Skills, Teamwork

EDUCATION

Ontario Graduate Certificate in Artificial Intelligence and Machine Learning   Sept 2022 – May 2024
Lambton College, Toronto, ON
Dean's Honours List GPA: 3.53/4.0

- Studied responsible AI development and ethical considerations
- Conducted independent research in stock market tweets collection and analysis using machine learning
- Researched on optimizing recommendation algorithms for e-commerce website

BSc. Comp Honours University of Northampton, Nepal   Sept 2022 – May 2024
GPA: 3.83/4.0, Major in Software Engineering

- Extensive experience in web development with HTML, CSS, Java, JavaScript
- Gained experience in software project management, including requirement analysis and project planning
- Progressed on algorithmic thinking through coursework and coding challenges
- Collaborated on group projects, enhancing teamwork and communication

Certificates

Python for Data Science Essential Training LinkedIn Learning   2023
SQL for Statistics Essential Training LinkedIn Learning   2023
Mathematics for Machine Learning Linear Algebra Coursera   2019

WORK EXPERIENCE

Software Engineer MAGDOTNET, Singapore   Apr 2022 – Jul 2022

- Led a team of 8 developers, managed workload and resources, met project deadlines, provided mentorship, and improved team performance
- Integrated Rest API and web-hooks services on an online vehicle booking system, enhancing accessibility for clients; and improving customer usage by 53%
- Implemented a similarity-based recommendation system for an online food ordering platform, resulting in a 75% revenue increase
- Deployed docker images and systems on Amazon's Elastic Container Services; reducing response time by 16%
- Managed project scopes, schedules, estimates, and risk assessments, working closely with internal departments, stakeholders, and customers

Software Engineer InfoDevelopers Pvt. Ltd., Sanepa, Nepal   Jun 2019 – Mar 2022
- Conducted research and development, staying current with industry trends and best practices
- Performed human action detection leveraging deep neural network, open pose identifying 4 different behaviors
- Automated inventory management for a soft-drink company; CNN for drink identification and predictive analysis; obtaining 97.8% test accuracy
- Developed a face-attendance system on Raspberry Pi with SVM and OpenCV, achieving 95% accuracy
- Utilized NLP techniques to build a chatbot for BFI's and constructed a language model for Named Entity Recognition and Multi-label classification

PROJECTS

Car Insurance Claim Prediction: Created a prediction model using Logistic Regression to forecast claims, improve risk appraisal, and efficiently allocate resources by combining pertinent vehicle and owner information

Tic-Tac-Toe with Reinforcement Learning: Developed AI agent using Q-Learning for optimal Tic-Tac-Toe gameplay

Rental Search Chatbot: Designed chatbot features, coordinating with Software Development and building chatbot on JavaScript; enhanced consumer support efficiency by 85%, automating query resolution through voice recognition