Sushrit Kafle

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EDUCATION

Southern Illinois University Edwardsville   *Edwardsville, Illinois*
Master of Science in Computer Science   **Expected May 2025**

RELEVANT COURSEWORK

Machine Learning	Programming in C	Object Oriented Programming in C++	Probability and Statistics

COURSES AND CERTIFICATIOS

The Complete 2023 Web Development Bootcamp, *Udemy*   **November 2022**
Foundations: Data, Data, Everywhere, *Coursera*   **September 2021**

PROFESSIONAL EXPERIENCE

Intern   **April 2023 - August 2023**
Silicon Soft and I.T. Consultant   *Kathmandu, Nepal*

- Developed a Job Portal MVC app with Entity Framework and SQL Server to gain expertise in database-driven web application development and data management within the .NET ecosystem.
- Actively participated in developing Web API with .NET Core Identity, JWT Tokens, Generic Interface and Repository pattern, improving code reusability, maintainability, and understanding of scalable API design.
- Took responsibility for Unit Testing, ensuring project robustness, reliability, and overall quality through rigorous testing.

PROJECTS

Tracking the Spread of the Invasive |*Python, Tableu, sklearn, Xgboost*   **October 2023 -Current**
Spotted Lanternfly

- Analyzed and enriched the publicly available Lyde dataset by adding new data points, incorporating temperature data, and utilizing data wrangling techniques to enhance predictive modeling for the spread of the spotted lanternfly.

SanoKaam - A Job Portal WebApp | *HTML, CSS, JavaScript, jQuery, Entity Framework, SQL Server*   **April 2023**

- Developed a feature-rich ASP .NET Core 6 MVC app for employers to post jobs and manage dashboards, while enabling employees to create profiles, apply for jobs, and track applications.

Big Mart Sales Prediction | *NumPy, Pandas, Matplotlib, Seaborn, sklearn*   **November 2021**

- Conducted analysis for in-depth insights into the sales dataset, employed data visualization techniques for effective presentation of key insights, and built a predictive model to enhance sales forecasting decisions.

Loan Status Prediction | *NumPy, Pandas, Matplotlib, Seaborn, sklearn*   **October 2021**

- Conducted comprehensive Exploratory Data Analysis (EDA) to understand dataset characteristics, engineered and fine-tuned a Logistic Regression Model for a classification problem, and leveraged the model for precise loan approval predictions, enhancing decision-making in the context of loan approvals.

Traffic Congestion Analysis | *Excel, Tableau*   **February 2020**

- Calculated delay times, congestion impact, and visualized data for comprehensive analysis of the road section.
- **Transferable skills:** Research Skills, Surveying and Data Collection, Data Visualization, Data Analysis, Problem Solving

TECHNICAL SKILLS

Languages: Proficient in C++, C#, Python, HTML, CSS, JavaScript, SQL
Frameworks: .Net, Entity Framework Core
Tools: Visual Studio, VS Code, Jupyter Notebook, Git, GitHub, RStudio
Data Analysis: NumPy, Pandas, Seaborn, Matplotlib, Scikit-Learn, Exploratory Data Analysis
Machine Learning/ Artificial Intelligence: Linear Regression, Logistic Regression, Decision Tree, K-Nearest Neighbor (KNN), Random Forest, Support Vector Machine, Naïve Bayes