

# Suman Lamsal

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## Summary

- Software Engineer with 2+ years of experience in the field of technology.
- Strong understanding of Machine Learning and DNN, Pytorch, TensorFlow, SQL, Database, python framework, and Mathematics.
- Worked on project of offline handwritten signature verification using CNN where writer independent features from the input signatures images are extracted and provide the result on the basis tolerable Euclidean distance between predicted and genuine feature vectors.
- Familiarity with image pre-processing techniques such as image scaling, transformation and Computer vision algorithms.
- Knowledge of model evaluation algorithm like Accuracy, F1 score, Precision, MAE, MSE, RMSE etc.
- Worked on optimizing model performance and reducing inference time, resulting in improvement of model performance.
- Developed a Lane detection model for self-driving car using OpenCV, NumPy and matplotlib.
- Developed a deep learning model for Heart rate prediction using PPG and accelerometer signal, used 1D-CNN, Negative Log Likelihood loss (NLL) as loss function, NADAM for optimizing model.

## WORK EXPERIENCE

### EVERESTWALKS GROUPS

November 2022-May 2023

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#### *Data Engineering and Analytics internship*

- Developed and optimized ETL pipelines using Python and SQL, resulting in reduction in data processing time and enabling real-time analytics integration.
- Developed and maintained ETL pipelines using Python and SQL, enabling seamless data flow between various sources and our analytics platform.
- Collaborated with cross-functional teams to identify key business metrics and translated them into actionable insights
- Conducted thorough exploratory data analysis (EDA) on complex datasets, leading to the discovery of hidden patterns and informing strategic business decisions.

### FUSEMACHINE

#### *AI FELLOWSHIP 2023*

JANUARY 2023-June 2023

- Expertise in traditional machine learning algorithms, including linear regression, logistic regression, decision trees, random forests, ensemble methods, and k-means clustering.
- Experience with regularization and parameter tuning to improve the performance of machine learning models.
- Familiar with deep learning and its applications, such as natural language processing, computer vision, and speech recognition.
- Skills in data visualization to communicate the results of machine learning experiments.
- Ability to learn new technologies and adapt to new challenges.

**OCM ENGINEERING GROUPS, LLC**

**AUGUST 2023- CURRENT**

***Backend Engineer***

- Working on Duke Energy team for pole data evaluation, pole inspection, and providing communications companies with a thorough and comprehensive look at the best solutions for attachments

**EDUCATION**

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***BACHELOR IN ELECTRONICS,  
COMMUNICATION AND INFORMATION  
ENGINEERING***

*Tribhuvan University*

*Passed year: 2023.*

**TECHNICAL SKILLS**

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**Programming Languages:** C, C++, PYTHON, JAVA, MATPLOTLIB

**Knowledge of Machine Learning, Deep Learning Data Manipulation:** Pandas, NumPy, Keras, TensorFlow

**Data Visualization:** Matplotlib, Seaborn

**Data Cleaning:** Data preprocessing, missing data imputation

**Statistical Analysis:** Hypothesis testing, Regression analysis

**Database Management:** SQL

**Version Control:** Git, GitHub

**Data Mining:** Exploratory Data Analysis (EDA), Feature Engineering

**Tools & Libraries:** Jupyter Notebook, Spyder, VS Code, Visio