sudesh.contact@gmail.com · +977 9765624237 · Pokhara-11, 33700, Gandaki, Nepal

Sudesh Acharya

- Fields: **Software Development, Data Science, and Deep Learning.**
- Stacks: Python3, HTML5|CSS3|JS, MongoDB|MonetDB, Basic Rust.
- Utils: DjangoREST, Numpy, Pandas, Matplotlib, PyTorch, OpenCV, AWS|GCP, Gymnasium, Linux, Git, Docker, ROS2, etc.
- Enjoys: Knowledge-exchange, Music, Learning new stuffs, Seasonal Hobbies.
- Languages: English : Fluent, German: Fluent, Hindi : Fluent, Nepali : Native

Summary

Spirited Developer ready, to offer acquired Software(Instruction, Test-driven) and Machine Learning(Data-driven) development skills and experiences, to spend effort on exciting and fulfilling projects, to assist develop products, facilitate services, seeking to undertake such roles and work on innovative and SOTA solutions.

Experiences Timeline

2023.11-24.08 **Data Science Researcher Internship - Munich, Germany** FfE e.V.

- Training and Optimiation of a Energy Prosumer RL Agent for Cost Optimization
- Gymnasium and StableBaselines3 based Research and Development

2022.07-23.08 **API server Development with DjangoREST - Karlsruhe, Germany** CloudFluid GmbH

- Development of Cloud(GCP, AWS) Interface[API] for fluid Cloud-based Simulation Service.
- DRF based Django User Auth., Service Backend, Logging(structlog), and Testing(PyTest)

2021.10-22.03 **Data Analytics and Reporting - Rostock, Germany** VestiFi GmbH

- Generation of Visualization(Matplotlib, Seaborn) and Reporting(LaTeX, Jinja).
- Extraction(MonetDB SQL), Transformation(Numpy), and Loading(MongoDB) pipeline for wifi radio pcaps.

2021.05-22.02 **Lidar Data Analysis, and ETL - Kiel, Germany** FuE FH Kiel GmbH

- Raw maritime 3D Lidar data collection and management within Kiel Förde
- Analysis and Transformation of raw Lidar data to several point cloud formats(.pcd, .npy)

2021.(05-06) **NLP/NLU Development Internship - Munich, Germany** ROKIN GmbH

- Document Classification(tagging) with BERT and Derivatives
- NLP based Model Development, Evaluation, Article prediction and Testing using Google Cloud Platform (GCP)

2017.(02-05) **ODOO Module Programmer - Lalitpur, Nepal** BI Solutions Pvt. Ltd.

- ODOO ERP and CRM Custom Module Development
- Python /ORM /MVC, PostgreSQL, Scrum/Kanban Project Mgmt.

Academic Timeline

2018 - now **Master's Degree** FH Kiel, Germany

- MSc. Information Engineering (Specialization : Intelligent Systems)
- Statistical Machine/Deep Learning, Business Analytics, Cloud Computing, DevOps, Project Management, Requirement Engineering. etc.

2012 - 2016 **Bachelor's Degree** RGPV University, India

- Computer Science and Engineering
- Theory of Computation, Data Structures and Algorithms, Digital Circuits and System etc.

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2010 - 2012 **High School** Caribbean HSS, Nepal

- Major : Natural and Formal Science
- Modern Physics, Biology, Chemistry, and Mathematics

Personal and Academic Projects

2020 - 2021 **Exploration of Art Generation using Deep Generative Models** PyTorch

- Exploration and Evaluation of Generative Models in Art Generation Domain.
- Progressive Implementaiton and Observation on (Unconditional and Conditional) GANs

2020 - 2021 **Classification of Thoractic diseases using Deep Learning** Keras | Tensorflow

- Implementation, Optimization and Evaluation on Custom CNNs.)
- Pre-training and Fine Tuning(Transfer Learning) using Densenet121 Architecture

2019- 2020 **Time Series Analysis and Forecasting** Python, R

- Time Series Analysis using Classical ML algorithms(Python/ R)
- Time Series Forecasting using Deep Learning Models(RNN/LSTM), Lib: FB-Prophet

2019- 2020 **Model Selection,Data Exploration and Visualization** Scikit-Learn

- High-dimensional Data Exploration: PCA, LDA, t-SNE, ISOMAP etc.
- Model Selection, Validation and Evaluation using criterias (AIC, BIC, MDL)

2018 - 2019 **Classical Machine Learning Implementation** Scikit-Learn

- Clustering, Classification, Regression: Support Vectors, Perceptron, DecisionTree, KNN)
- Data: UCI banknote authentication, Segmentation, Mice Protein data Clustering, etc.

Certification Courses

2020 - 2021 **Python for Data Science, AI and Development** IBM | Coursera

- Fundamentals of Python Programming for Analytics
- Data Analysis with Numpy,Pandas, Matplotlib, and Seaborn

2020 - 2021 **Deep Learning Specialization** Coursera

- Deep Learning Fundamentals, Computer Vision, Sequence and Attention Models(NLP, NLU)
- Optimization, Hyperparameter Tune/Search, and Regularization.

2020 **AI for Medical Diagnosis** Deeplearning.ai

- Disease detection and classification using Convolutional Neural Networks
- Evaluation metrics, domain challenges with medical datasets

Open Projectworks @: ***https://github.com/mnpr-vcs***

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