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/C.

❯ 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, seeking to undertake such roles and work on innovative and SOTA solutions.

❯❯❯ Experiences Timeline

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

  ❯ Development of a Prosumer Reinforcement Learning Agent for Energy Cost Optimization.
  ❯ Using Gymnasium and StableBaselines3 , based on PPO, SAC TD3 Algorithms.

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 for Energy Prosumption** | Python, R |

❯ Time Series Analysis and Forecasting using Classical ARIMAs and ML algorithms
❯ On an hourly energy production and consumption data from *energycharts.info*

| 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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