

Sudesh Acharya



- » **Fields:** Software Development, Data Science, and Deep Learning.
- » **Stacks:** Python3, HTML5 | CSS3 | JS, MongoDB | MonetDB, Basic C++ | 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 Intern - Munich, Germany	FfE e.V.
	<ul style="list-style-type: none"> » 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) 	
2022.07-23.08	API server Development with DjangoREST - Karlsruhe, Germany	CloudFluid GmbH
	<ul style="list-style-type: none"> » 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
	<ul style="list-style-type: none"> » 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
	<ul style="list-style-type: none"> » 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
	<ul style="list-style-type: none"> » 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.
	<ul style="list-style-type: none"> » 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
	<ul style="list-style-type: none"> » 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
	<ul style="list-style-type: none"> » Computer Science and Engineering » Theory of Computation, Data Structures and Algorithms, Digital Circuits and System etc. 	

2010 - 2012	High School	Caribbean HSS, Nepal
	<ul style="list-style-type: none">➤ 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
	<ul style="list-style-type: none">➤ 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
	<ul style="list-style-type: none">➤ 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
	<ul style="list-style-type: none">➤ 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
	<ul style="list-style-type: none">➤ 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
	<ul style="list-style-type: none">➤ 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
	<ul style="list-style-type: none">➤ Fundamentals of Python Programming for Analytics➤ Data Analysis with Numpy,Pandas, Matplotlib, and Seaborn	
2020 - 2021	Deep Learning Specialization	Coursera
	<ul style="list-style-type: none">➤ Deep Learning Fundamentals, Computer Vision, Sequence and Attention Models(NLP, NLU)➤ Optimization, Hyperparameter Tune/Search, and Regularization.	
2020	AI for Medical Diagnosis	Deeplearning.ai
	<ul style="list-style-type: none">➤ Disease detection and classification using Convolutional Neural Networks➤ Evaluation metrics, domain challenges with medical datasets	

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

