Bishal Gautam

Software Engineer with experience in machine learning, 3D data processing, ETL pipelines, and web development in the domains of autonomous driving and health technology. Skilled in Python, cloud technologies, and agile environments. Actively learning the German language.

Experience

- **Customer Support and IT Assistant**
  AI Arts Iimori GmbH | Frankfurt | 05.2024 - present

    - Provided IT support, assisted customers, and improved communication skills through active language learning.

- **Working Student / Internships**

    - **Research Assistant** – *FZI Forschungszentrum Informatik | Karlsruhe, Germany | 04.2023 – 04.2024*

        * Created and shared test data for self-driving cars with CARLA and ROS2. Processed and visualized 3D point clouds using Python and related tools.

    - **Student Assistant** – *Frankfurt University of Applied Sciences | Frankfurt, Germany | 06.2023 – 12.2023*

        * Improved data labeling of ultrasonic sensors with machine learning, working in a team to increase annotation efficiency.

    - **Software Developer (Working Student)** – *eMedicals Healthtech GmbH | Frankfurt, Germany | 08.2022 – 03.2023*

        * Scraped dialysis and medication data, built ETL pipelines, and stored data in SQL. Developed Django REST APIs and managed Azure DevOps CI pipelines.

    - **Tech Intern (Data Science)** – *Insightfulme GmbH | Berlin, Germany | 03.2022 – 05.2022*

        * User data analyzed in BigQuery and RDS to track activity and trends. Set up tests for CI/CD workflows.

- **Service Engineer**
  East West Concern Pvt. Ltd. | Nepal | 02.2020 - 09.2021

    - Provided technical support for medical devices in hospitals during COVID-19, ensuring smooth operation.

- **Software Developer (Project Based Freelancer)**
  Pro-Mech Minds & Engineering Services Pvt. Ltd.| Nepal | 01.2020 - 07.2020

    - Built APIs, scraped and cleaned data, and added sentiment and profanity checks for a quiz app.

- **Robotics / Electronics Trainer**
  Futani Technology Pvt. Ltd.| Nepal | 09.2017 - 12.2019

    - Taught students robotics, developed projects, and organized exhibitions.

Education

- **M.Eng. Information Technology**
  Frankfurt UAS, Germany | 10.2021 – 06.2024
  Thesis: *Building a pipeline to enhance LiDAR data and support scenario-based testing for detecting people in self-driving cars. – conducted at FZI Forschungszentrum Informatik, Karlsruhe*
  Final Grade: 1.6

- **B.E. Electronics and Communication**
  Tribhuvan University, Nepal | 09.2013 – 09.2017
  Thesis: *IoT-based Tele-Robot using Raspberry Pi.*
  Final Grade: 2.3

IT-Skills

Programming:	Python, JS, C#
Data Analysis:	NumPy, Pandas
Visualization:	Plotly, Streamlit
ML:	Sklearn, Tensorflow
Web/API:	FastAPI, Django, Node.js
Databases:	MySQL, MongoDB
Cloud:	Docker, Azure, VMs
Version Control:	GitHub, Bitbucket
Simulation:	ROS, Rviz2, CARLA
PM Tools:	Jira, Confluence
Others:	Linux, Postman, Bash

Language

English:	C1
German:	B2
Hindi:	C1
Nepali:	Muttersprache

Volunteering

- PyCon DE & PyData 2025
- PyCon DE & PyData Berlin 2024
- PyCon DE & PyData Berlin 2023
- Web Weekend Kathmandu 2019