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SUMMARY

- Data Science professional with 2.5 years of experience developing and deploying data-driven solutions and web applications.
- A great team player with a collaborative mind-set, experienced in working with cross-functional teams, and seeking full-time opportunities.

EXPERIENCE

Machine Learning Engineer (August 2024 - Present) - Uptain GmbH, Hamburg, Germany

- Research and development of LLM models
- Develop classification and time series, classification, and regression models.
- A/B testing
- Lookerstudio dashboard
- Integration and development of ETL and ML pipelines in the cloud.
  Skills: Python, Pandas, Pyspark, SQL, Jira, AWS (Glue, Athena, Lambda, S3), Lookerstudio.

Working Student / Master Thesis (July 2023 - June 2024) - Smiths Detection, Nordestedt, Germany

- Training data preparation (3D X-ray images)
- Research and development in classical and deep learning-based 3D image segmentation algorithms
  Skills: Python, Numpy, Tensorflow, Matplotlib, Scipy, Bash

Software Engineer (Oct 2022 - Feb 2023)- Cotiviti Nepal Inc, Kathmandu, Nepal

- Built Data Ingestion pipelines from data lakes using an in-house platform based on Apache Hadoop and Spark for US medical data. Transformation of raw source data to standardized format using SQL scripts**.** Worked as a team player software engineer with developers from several teams to carry a large project.
  Skills: SQL, Jira

Software Engineer (Oct 2020- June 2022) -GBT Technologies Pvt Ltd, Kathmandu, Nepal

- **Python-based web application development**
  Contribution: Backend features development in multiple applications based on different frameworks. Tasks include designing application architectures, API integrations, REST API development, deployment, and version control. Backend and Frontend feature additions such as Email Sign-up and delivery, newsletters, and blog creation and delivery in a

Django based application.
Skills: Python, Django, Docker, Git, Flask, REST API, AWS, PostgreSQL

- **Farm Incubation Management System**
  Contribution: Designed and programmed the workflow of the entire application including tasks such as automation and notification. I designed relationships between different tables/modules using ORM and wrote raw SQL queries for some complex queries using Union and Joins. Deployment and CI/CD with Docker and Gitlab were also used. Besides technical tasks, I was responsible to lead the team and communicate with project stakeholders.
  Skills: Python, PostgreSQL, Docker, Git, OOP, AWS, Scrum

KEY SKILLS

- Python
- PostgreSQL
- Pandas
- Numpy
- Machine Learning (Supervised, Unsupervised algorithms)
- Deep Learning (Neural networks, Convolutional Neural Network, Tensorflow)
- Statistics (Hypothesis tests, probability distributions, Bayes theorem)
- Web Application Frameworks (Django)
- Git (Github)
- Docker
- AWS (EC2, S3, Lambda)
- Airflow
- Scrum

LANGUAGE

- English - Fluent (C2)
- Deutsch - Basic (A2)

PROJECTS

- **News Classification**
  https://github.com/darth-anish/news-classifier
  Objective: To create a news classifier (4 categories) trained on data scraped from dw news. Analyze important topics of news scraped on each category.
  Overview: In this project, the first news articles are scraped from dw news using selenium on which two popular NLP models BERT and TFIDF-SVM are trained. Preprocessing such as stop word removals, regex, and tokenization of text sequences are done before passing the data into a pre-trained BERT model using TensorFlow. For TFIDF-SVM, text vectorization using TFIDF and classification using SVM is done. TFIDF with RBF-kernel-based SVM classifier is the winning model. Then, on the news articles, the top 10 topics in each category using LDA are visualized.
  Skills: Python, Tensorflow, Visualization, Generative AI (BERT), SVM, NLP

- **Readmission Prediction**

https://github.com/darth-anish/Readmission_Prediction

Objective: To predict the readmission of diabetic patients within 30 days of initial admission. Analyze the significant features of readmission.
Overview: It is a capstone project with a data set of hospitals in the USA. EDA, feature importance, and clustering are done to create a patient profile for analysis and prediction is done using several machine learning models with the RandomForest classifier as the winning model. A project report was also prepared for it.
Skills: Python, Pandas, Feature Engineering, ML, Clustering, Visualization, Statistics

- **Churn Prediction**
  https://github.com/darth-anish/churn_prediction_project

  Objective: Create a churn prediction classifier and deploy it in a web application.
  Overview: In this project, for the telecom industry, different machine learning models are trained and hyperparameters are tuned for prediction of churning of customers. Here, it starts with the visualization of data and then ends with the winner model after performance comparison. Then in a docker containerized environment, the predictor is deployed in the AWS cloud (EC2) using the Django web application framework.
  Skills: Pandas, Python, Django, Visualization, AWS, Docker, Git, PostgreSQL

- **ETL Python**
  https://github.com/darth-anish/ETL-Python

  Objective: Create a simple ETL pipeline based on Python and Pandas library and clean and transform a dataset.
  Overview: In this project, a Python-based ETL pipeline is developed where a dataset is cleaned and transformed. The transformed data is loaded into the Postgresql database which is a data warehouse. Additional features like integration to AWS cloud and streaming frameworks such as Apache Kafka would be deployed in the future.
  Skills: Python, Pandas, Data Warehouse, ETL, PostgreSQL

EDUCATION

Course	Institution	Year	Remarks
Master's in Data Science	Fachhochschule Kiel, Kiel, Germany	2023-2024	1,38
Post Graduate Program in Data Science and Engineering	Great Learning, Mumbai, India	2020	Excel
BE in Electrical and Electronics Engineering	Kathmandu University (School of Engineering), Dhulikhel, Nepal	2019	2,1 (3.22/4.0)

OTHER ACHIEVEMENTS

- **“Comparative study of Face Mask Recognition using Deep Learning and Machine learning classifiers”,** International Conference on Innovative Computing, IntelligentCommunication and Smart Electrical systems, 2021