

# Samarpan Rai

· ACTIONABLE DATA-DRIVEN INSIGHTS ·

Nijmegen, The Netherlands

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“Programming is about trying to make the future less painful. (Saron Yitbarek)”

## Work Experience

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### TomTom

Amsterdam, The Netherlands

DATA SCIENTIST (GEOLOCATION FOCUS)

July. 2021 - Present

- Democratise data access - Built scalable data pipelines using Spark to process large-scale geospatial data coming from various data producers from the road all over the globe. This reduced the friction for various teams to filter, mung and consume what they are interested in to extract insights.
- Lower barrier to data-driven decision - Based on the user feedback design, build and maintain Python client libraries along with documentation and examples for them to get started
- Research, proposed and built an algorithm to handle roundabout and loops in ML inference to lower precious mobile cost over the air

### Vartion B.V.

Malden, The Netherlands

A. I ENGINEER (NLP FOCUS)

May. 2020 - June 2021

- Extracted rich information from unstructured text such as sentiment, named entities and their relations by building state-of-art NLP models using tools like spaCy, HuggingFace and Pytorch.
- Generated business value by deploying trained models to scale using Docker and Kubernetes horizontally.

### GooHoo B.V.

Hatert, The Netherlands

DATA SCIENTIST (FORECASTING FOCUS)

Nov. 2018 - Apr. 2020

- Create data lake by processing and transforming data from diverse sources using R and packages in tidy-verse universe.
- Provide actionable business insights by integrating the data lake and creating user-friendly dashboards using Shiny.
- Predict the optimal price to maximise revenue using demand forecasting and price optimisation algorithm built with AWS's Sagemaker.

### WYND

Paris, France

WEB INTEGRATION DEVELOPER

Nov. 2015 - May. 2016

- Reduced mobile data usage by 60% by implementing a smarter publishing-subscribe messaging system using PubNub.
- Supported seamless mobile SDK integration by creating a secure wrapper around the SlimAPI wrapper.

## Education

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### Radboud University

Nijmegen, The Netherlands

B.S. IN ARTIFICIAL INTELLIGENCE

2016 - 2020

- Strong focus on cognitive science such intelligence is studied from Brain to machine.
- Active member of study association Cognac
- Graduated with 7.5 on thesis titled - "Using Back-Propagation based Highlights as an Explanation in Human Fake News Detection"

### Radboud University

Nijmegen, The Netherlands

HONOURS PROGRAMME

2016 - 2016

- Critically thinking and discussing about various divisive topics like climate change, euthanasia, and the AI's impact on the society.
- Graduating paper : "Why Artificial Intelligence (AI) is the backbone of Automation?"

### TomTom Summer school

Amsterdam, The Netherlands

PARTICIPANT

26-30 August 2019

- Learnt about the technology that drives the autonomous car by attending interesting lectures on computer vision, robotics and map making.
- Achieved the runner up position by showcasing our robot that won the line following competition.

## Extracurricular Activity

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### Cognac

Nijmegen, The Netherlands

CHAIRMAN OF INTERNATIONAL STUDENTS' COMMITTEE

2018 - 2019

- Organised workshop and talks to share international students' experience and tips on how to adjust in Dutch society.
- Planned fun activities for students to explore Dutch cities and learn about local history.

## **Newcraft 24 Data Challenge**

*Amsterdam, The Netherlands*

PARTICIPANT

*7-8 May 2019*

- Worked on case for Picnic to answer if weather affects sales.
- Learnt valuable lesson about understanding problem and exploring the data before jumping into implementation.

## **CoderDojo Nijmegen**

*Nijmegen, The Netherlands*

MENTOR

*July 2018 - May 2019*

- Answering coding related question from kids learning to code.

## **Languages**

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### **English**

CEFR C2 LEVEL

### **Dutch**

CEFR A2 LEVEL

### **Nepali**

CEFR C2 LEVEL

## **Skills and Interests**

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### **Tech and non-tech writing at my own blog**

Whenever inspiration strikes, I write about various topics like programming, math, and learning Dutch.

### **Contribute to python open source library Clumper for munging data easily**

### **Regularly play table tennis and compete in local clubs and run trails on a good weather**