

# Abhijith Mundanad Narayanan

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*Seven+ years of experience in Data Science | Naturalized Belgian Citizen | Gent, Belgium*

## EDUCATION

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### PhD: Electrical Engineering

*ML and AI: regression, feature-based and DNNs in (biomedical) signal processing.*

KU Leuven, Belgium

*Dec. 2016 – Sep. 2021*

### Master of Engineering in Signal Processing

*Specialization in audio data processing, speech data processing and classification.*

Indian Institute of Science, Bengaluru

*Aug. 2012 – Jul. 2014*

### B.Tech in Electronics and Communication Engineering

*Specialization in electronics and communication.*

University of Kerala

*Aug. 2005 – Jul. 2009*

## EXPERIENCE

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### Data Scientist

Feb, 2023 – Present (2+ yrs)

*Toqua* | Decarbonizing the shipping industry through AI and machine learning.

*Gent, Belgium*

- Ownership of ship-kernels: from data ingestion, exploration, modeling, validation to deployment of ship performance models.
- Developing and maintaining data ingestion pipelines from various data collection APIs.
- Data quality monitoring of ship sensor data
- **Tools:** *python, Azure ML, Azure cloud services, linux*

### Data Scientist

Oct, 21 – Dec, 22 (1 yr)

*Indigo Diabetes* | World's first implantable Continuous Metabolite Measurement (CMM) sensor.

*Gent, Belgium*

- End-to-end: Sensor data to glucose models.
- Sensor data exploration and sensor validation.
- **Tools:** *python, Dash/Plotly, Django*

### Doctoral Researcher

Oct, 17 – Sep, 21 (4 yrs)

*KU Leuven* | Biomedical data processing research group in the world's most innovative university

*Leuven, Belgium*

- Developed data processing, analysis and machine learning techniques on biomedical data, with a specific focus on electroencephalography (EEG) data.

### Signal Processing Engineer

Jul. '14 – Sep. '16 (2 yrs)

*Qualcomm* | World's largest fabless semiconductor company.

*Bengaluru, India*

- Software development of residential gateways through upgrading in echo canceller system.
- Contributed towards the development of world's first Gigabit DSL chip of Qualcomm.

## ACCOLADES

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- 1st Place: Neureka Seizure Challenge 2020, the world-wide seizure detection challenge organized by Novela Neurotech and Temple University.
- Best Paper Award: IEEE SPMB 2020, for the paper titled "Epileptic Seizure Detection in EEG via Fusion of Multi-View Attention-Gated U-Net Deep Neural Networks".

## PUBLICATIONS

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- 4 articles in peer-reviewed international journals. 4 articles in international conferences. Please checkout my [Google Scholar profile](#).

## TECHNICAL SKILLS

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**Languages:** Python, MATLAB

**Frameworks/Tools:** Azure ML, MLflow, Bokeh, Dash (Plotly)

**Developer Tools:** Git, Docker, Bash/linux, Microsoft Azure