

Abhijith Mundanad Narayanan

mailme@abhimundanad.com | [LinkedIn](#)

EDUCATION

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

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

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.
- Making sense of sensor data

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.

PROJECTS

Toqua | *Python, Microsoft Azure*

Feb '23 – Present

- Laid the foundations of a data health monitoring framework for ship sensor data
- Full ownership of client projects: from data ingestion via API connections to model validation and updates.
- Interacting with customers, understanding their needs and showcasing the value of Toqua's ship performance models.

Indigo Biomed | *Python, Dash/Plotly, Matplotlib*

Oct, 21 – Dec, 22

- Built end-to-end data pipelines from raw sensor data to glucose prediction models for Indigo's first CMM sensor.
- Used mathematical models and interactive visualizations to investigate and demonstrate fundamental features, patterns, and issues in collected sensor data.

TECHNICAL SKILLS

Languages: Python, MATLAB

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

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