

Abhijith Mundanad Narayanan

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

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

EDUCATION

PhD: Electrical Engineering <i>ML and AI: regression, feature-based and DNNs in (biomedical) signal processing.</i>	KU Leuven, Belgium Dec. 2016 – Sep. 2021
Master of Engineering in Signal Processing <i>Specialization in audio data processing, speech data processing and classification.</i>	Indian Institute of Science, Bengaluru Aug. 2012 – Jul. 2014
B.Tech in Electronics and Communication Engineering <i>Specialization in electronics and communication.</i>	University of Kerala Aug. 2005 – Jul. 2009

EXPERIENCE

Data Scientist <i>Toqua</i> Decarbonizing the shipping industry through AI and machine learning.	Feb, 2023 – Present (2+ yrs) Gent, Belgium
<ul style="list-style-type: none">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 dataTools: <i>python, Azure ML, Azure cloud services, linux</i>	
Data Scientist <i>Indigo Diabetes</i> World's first implantable Continuous Metabolite Measurement (CMM) sensor.	Oct, 21 – Dec, 22 (1 yr) Gent, Belgium
<ul style="list-style-type: none">End-to-end: Sensor data to glucose models.Sensor data exploration and sensor validation.Tools: <i>python, Dash/Plotly, Django</i>	
Doctoral Researcher <i>KU Leuven</i> Biomedical data processing research group in the world's most innovative university	Oct, 17 – Sep, 21 (4 yrs) Leuven, Belgium
<ul style="list-style-type: none">Developed data processing, analysis and machine learning techniques on biomedical data, with a specific focus on electroencephalography (EEG) data.	
Signal Processing Engineer <i>Qualcomm</i> World's largest fabless semiconductor company.	Jul. '14 – Sep. '16 (2 yrs) Bengaluru, India
<ul style="list-style-type: none">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 <i>Python, Microsoft Azure</i>	Feb '23 – Present
<ul style="list-style-type: none">Laid the foundations of a data health monitoring framework for ship sensor dataFull 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 <i>Python, Dash/Plotly, Matplotlib</i>	Oct, 21 – Dec, 22
<ul style="list-style-type: none">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