

# Abhijith Mundanad Narayanan

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*Naturalized Belgian Citizen | Gent, Belgium | Available for relocation | Available for remote work*

## EDUCATION

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

## EXPERIENCE

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<b>Data Scientist</b> <i>Toqua</i>   Decarbonizing the shipping industry through AI and machine learning.	Feb, 2023 – Present (2+ yrs) <i>Gent, Belgium</i>
<ul style="list-style-type: none"><li>• Ownership of ship-kernels: from data ingestion, exploration, modeling, validation to deployment of ship performance models.</li><li>• Developing and maintaining data ingestion pipelines from various data collection APIs.</li><li>• Data quality monitoring of ship sensor data</li></ul>	
<b>Data Scientist</b> <i>Indigo Diabetes</i>   World's first implantable Continuous Metabolite Measurement (CMM) sensor.	Oct, 21 – Dec, 22 (1 yr) <i>Gent, Belgium</i>
<ul style="list-style-type: none"><li>• End-to-end: Sensor data to glucose models.</li><li>• Making sense of sensor data</li></ul>	
<b>Doctoral Researcher</b> <i>KU Leuven</i>   Biomedical data processing research group in the world's most innovative university	Oct, 17 – Sep, 21 (4 yrs) <i>Leuven, Belgium</i>
<ul style="list-style-type: none"><li>• Developed data processing, analysis and machine learning techniques on biomedical data, with a specific focus on electroencephalography (EEG) data.</li></ul>	
<b>Signal Processing Engineer</b> <i>Qualcomm</i>   World's largest fabless semiconductor company.	Jul. '14 – Sep. '16 (2 yrs) <i>Bengaluru, India</i>
<ul style="list-style-type: none"><li>• Software development of residential gateways through upgrading in echo canceller system.</li><li>• Contributed towards the development of world's first Gigabit DSL chip of Qualcomm.</li></ul>	

## PROJECTS

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<b>Toqua</b>   <i>Python, Microsoft Azure</i>	Feb '23 – Present
<ul style="list-style-type: none"><li>• Laid the foundations of a data health monitoring framework for ship sensor data</li><li>• Full ownership of client projects: from data ingestion via API connections to model validation and updates.</li><li>• Interacting with customers, understanding their needs and showcasing the value of Toqua's ship performance models.</li></ul>	
<b>Indigo Biomed</b>   <i>Python, Dash/Plotly, Matplotlib</i>	Oct, 21 – Dec, 22
<ul style="list-style-type: none"><li>• Built end-to-end data pipelines from raw sensor data to glucose prediction models for Indigo's first CMM sensor.</li><li>• Used mathematical models and interactive visualizations to investigate and demonstrate fundamental features, patterns, and issues in collected sensor data.</li></ul>	

## 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