Abhijith Mundanad Narayanan

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EDUCATION

PhD: Electrical Engineering — KU Leuven, Belgium
ML and AI: regression, feature-based and DNNs in (biomedical) signal processing. — *Dec. 2016 – Sep. 2021*

Master of Engineering in Signal Processing — Indian Institute of Science, Bengaluru
Specialization in audio data processing, speech data processing and classification. — *Aug. 2012 – Jul. 2014*

B.Tech in Electronics and Communication Engineering — University of Kerala
Specialization in electronics and communication. — *Aug. 2005 – Jul. 2009*

EXPERIENCE

Data Scientist — Feb, 2023 – Present (2+ years)
Toqua — *Gent, Belgium*

- Ownership of ship-kernels: from data ingestion, exploration, modeling, validation to deployment of ship performance models.
- Data quality monitoring of ship sensor data: Laid the foundations of a data health monitoring framework.
- Developing and maintaining data ingestion pipelines from various data collection APIs.
- Skills: python, Microsoft Azure, MLOps using mlflow and Azure ML pipelines

Data Scientist — Oct. 2021 – Dec. 2022 (1 year)
Indigo Diabetes — *Zwijnaarde, Gent, Belgium*

- Developers of the world's first implantable Continuous Metabolite Measurement (CMM) sensor.
- From sensor data to glucose models: Built end-to-end data pipelines from raw sensor data to glucose prediction models for Indigo's first CMM sensor. Skills: python, MATLAB
- Making sense of sensor data: Used mathematical models and interactive visualizations to investigate and demonstrate fundamental features, patterns, and issues in collected sensor data. Tools: Python, Bokeh, Dash (Plotly), MATLAB.

Doctoral Researcher — Oct. 2017 – Sep. 2021 (4 years)
KU Leuven — *Leuven, Belgium*

- Part of the biomedical data processing research group in the world's most innovative university (Reuters).
- Developed data processing, analysis and machine learning techniques on biomedical data, with a specific focus on electroencephalography (EEG) data.
- Skills: python, MATLAB, cluster computing: linux bash/shell

PROJECTS

Gitlytics | *Python, Flask, React, PostgreSQL, Docker* — June 2020 – Present

- Developed a full-stack web application using with Flask serving a REST API with React as the frontend
- Implemented GitHub OAuth to get data from user's repositories
- Visualized GitHub data to show collaboration
- Used Celery and Redis for asynchronous tasks

Simple Paintball | *Spigot API, Java, Maven, TravisCI, Git* — May 2018 – May 2020

- Developed a Minecraft server plugin to entertain kids during free time for a previous job
- Published plugin to websites gaining 2K+ downloads and an average 4.5/5-star review
- Implemented continuous delivery using TravisCI to build the plugin upon new a release
- Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R
Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI
Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Libraries: pandas, NumPy, Matplotlib