

BHARATHWAJ RAJAN

Gent, Belgium

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A mathematician who thrives on creating order out of chaos, I am energized by **“wicked”** challenges and am comfortable with ambiguity. I keep projects on track and have a knack for identifying blind spots and finding elegant solutions to unforeseen problems.

NOTABLE ACCOMPLISHMENTS

Awards : Recipient of Abruzzo Regional Grant' 18 worth 14000 Euros | Recipient of Erasmus+ scholarship worth 7000 Euros | Top 3% in DCU class of 2014-2016

Publications : Co-authored software package (DGM) in Python and C++ to analyse and model cardiac arrhythmias from clinical datasets (Springer, 2022)

Entrepreneurship : Co-founded an advisory firm in Dublin that served growth-stage firms seeking to increase their market presence by designing websites and strategic reports

Initiatives : Spearheaded the R&D student wing and IEEE student chapter with 300 students and completed 5 research projects under a budget of 45,000 INR (approx. 500 Euros)

PROJECTS

Machine Learning: Implemented a timeseries prediction for a defined gap length of non-stationary pollution dataset using AUTO-ML and bayesian interfacing (python3, R)

Subscription Service: Modelled a blockchain algorithm in python to design a digital subscription service and created a REST API of the implementation (Dublin)

Real Time Data: Developed a streaming data processing system by interfacing NOAA satellites using WXtollmg to create a weather map and created a real time dashboard using PowerBi

Banking System: Developed an inclusive hyperlocal blockchain based banking system (C++ and python) and provided proof of concepts by working with web APIs (Singapore)

SKILLS

Programming C/C++, Python, SQL, MATLAB

Tools Virtual machines, Git, Docker, Power Bi

EXPERIENCE

Research Fellow (Physics and Astronomy) - University of Ghent	2021-2022
Freelance Consultant/Strategist - Singapore, Dublin & Chennai	2016-2018
Graduate Teaching Assistant - Dublin City University (DCU)	Feb' 15-May' 15
Research Assistant - Indian Institute of Technology (Madras)	May' 14-Jul' 14

EDUCATION

Master Thesis + Exchange Student - Vienna University of Technology (TU)	2019-2021
M.Sc in Mathematical Modelling - University of LAquila	2018-2021
M.Eng in Telecommunications - Dublin City University	2014-2016
B.E in Electronics and Communication - Anna University, Chennai	2010-2014