Haseeb Tariq

Data Scientist

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🪪 ABOUT

I believe I have the ideal mix of skills when it comes to the applied and practical sides of data science. With over 16 years of professional experience I have been a part of many successful data initiatives (and projects), but more importantly I have also had my fair share of failures. Those failures have helped me greatly in becoming a strategic thinker. I attribute the success of my career to the following two aspects:

1. Consciously striving to surround myself with people who are smarter than me
2. Getting things done despite the most unfavorable circumstances

I am currently working at ING Netherlands, in the areas of transaction monitoring, fraud prevention, and KYC (Know Your Customer).

🏢 WORK EXPERIENCE

Data & AI Tech Lead, ING (Internationale Nederlanden Groep)

Jan 2025 - Present

ING is the largest Dutch bank, and one of the largest banks globally. Some of my major responsibilities and projects include:

- Architecting, building, and deploying production-grade analytics products and machine learning models
- Setting up and accelerating the adoption of technology standards
- Mentoring and coaching colleagues
- Leading the research efforts in the areas of graph modelling and anomaly detection

Principal Data Scientist, Transaction Monitoring Netherlands (TMNL)

May 2021 - Present

TMNL is a joint initiative of five Dutch banks: ABN AMRO, ING, Rabobank, Triodos Bank and de Volksbank. With TMNL, these banks collectively monitor their payment transactions to look for signals that could indicate money laundering or the financing of terrorism. Some of my major responsibilities and projects include:

- Network/graph models: Community detection-based anomaly detection; targeted network search; (temporal) follow the money models
- Led the research efforts at TMNL; published a paper at PKDD 2023 (currently finalizing the 2nd paper); supervised Master's students; presented talks at DSFC
- HR responsibilities: Created the technical challenge for data science recruitment; hired, mentored, and guided the fellow data scientists in finalizing their growth plans
- Founded and led the BOTs (or Bureau of Technology Standards) to help TMNL achieve the highest technology standards by using automation; and by keeping things simple
- Designed the ontology/vision for analytics product development across TMNL
- Standardisation: Graph representation; feature generation; product/model development
- Architected the system for constructing a community around a party of interest in real-time
- Built and led the development of several Python libraries which are used across several teams and models

Lead Data Scientist, BrandLoyalty

Feb 2019 - April 2021   🕐 2 years 3 months

BrandLoyalty designs, develops and implements loyalty solutions that help the world's most successful retailers to change consumers' behaviour. Some of my major responsibilities and projects included:

- Exploring and prioritizing use cases
- Leading the data science adoption efforts and setting the strategic vision
- Hiring, training, and mentoring team members

- Program impact analysis using timeseries modeling
- RAVEN [Ratios and Volume Excellence]: A unique (demand forecasting) model implementation, combining the concepts of (both) Boosting and Bagging
- [Early phase] A predictive model for pre-empting redemptions

Senior Data Scientist, Coolblue

Feb 2016 - Feb 2019   🕐 3 years

Coolblue is one of the largest online shops in the Benelux region. Some of my major responsibilities and projects included:

- GFM [Generalised Forecasting Machine]: A fully automated timeseries modeling engine for operational forecasting
- A recommender system that predicts the ideal sequence of pages, given the most recent (page) clicks of a user
- Google Adwords bidding schedule optimiser
- Early phase models: Pricing optimisation, email pressure, and fraud detection
- Training and mentoring the junior team members
- Assisting the hiring manager in the recruitment process

Data Scientist, Convo

Jun 2014 – Nov 2015   🕐 1 year 6 months

Convo is a work collaboration platform that goes beyond chat/messenger solutions. My major responsibilities and projects included:

- Utilizing data science to improve the overall user retention rate
- Exploratory analyses for understanding user behaviour and trends
- Implemented a customer churn model for improving the user onboarding wizard

Data Analyst / BI Engineer, Pring

Dec 2008 – May 2014   🕐 5 years 6 months

Pring was one of the biggest micro-blogging services from Pakistan. Some of my major responsibilities and projects included:

- Developed an NLP model for extracting and matching (pre-selected) topics
- Extensively developed monitoring and reporting tools for Pring
- Lead and managed the side-projects for company's internship program
- During the earlier period of Pring, I also gained extensive experience in software/data engineering
    - ... [omitting those projects because of irrelevancy]

⚒ SKILLS

Programming: Python, R, Tensorflow, R Shiny, Django, Flask, JavaScript, D3.js, OOP, RESTful API Design

Databases: MySQL, MSSQL, PostgreSQL, Oracle, MongoDB, Cassandra, Redis

Cloud / Distributed Computing: AWS, GCP, Azure, Spark, Hadoop

MLOps: Unix-like operating systems, Docker, TeamCity, Apache Airflow

🎓 EDUCATION

PhD (Mathematics and Computer Science), Eindhoven University of Technology, The Netherlands

2022 - Ongoing

MSc in Advanced Computer Science (Data Science), University of Manchester, United Kingdom

2013 - 2014

BSc (Hons) in Computer Science, NCBA&E Lahore, Pakistan

2004 - 2008

❤ INTERESTS

Sports

Squash   Cricket

Cooking

🈯 LANGUAGES

English, **Urdu**, **Punjabi**, **Dutch** (A2 Level)