Misrab M. Faizullah-Khan

misrab.me

━━━ EDUCATION

2008-2013 **STANFORD UNIVERSITY**

M.S. Management Science & Engineering: Artificial Intelligence

B.A. Economics, Minor Computer Science

2004–2006 **UNITED WORLD COLLEGE OF SOUTH EAST ASIA**

International Baccalaureate (IB) Diploma
- Total score: 44/45
- Extra subject: Further Mathematics
- National Youth Achievement Award, Economist of the Year, Journalist of the Year

━━━ COURSEWORK & LEARNING

Technical Machine Learning, Databases, Convex Optimisation, Computer Networking, Cryptocurrency & Blockchain

Operations Technology Strategy, Accounting, Operations Research

Projects Neural network that identified spoken languages; Youtube channel ranking system; Online auction mechanism design and more

━━━ SKILLS

Programming Proficient in C, Rust, Java, Golang, Python, Javascript

Mobile/Web HTML, CSS, Node, d3, React, common frameworks

Databases Hands-on experience with SQL, MongoDB, Hadoop, Hive, graph databases and distributed systems fundamentals

Languages Written and spoken English, French (native), Mandarin, Urdu, Hindi, Italian (advanced), Turkish, Portuguese, Indonesian (intermediate)

Interests Classical and jazz guitar, piano, long-distance running, garage engineering, modern history

WORK

Dec '16–present
TECH PIONEERING, *VP of Data Science*, Go-jek, Singapore
- Go-jek is Indonesia's first tech unicorn (going decacorn). Uber for motorcycles, and so much more. As of November '17, we had 600k drivers, 100k merchants, and were doing millions of orders on our platform every day
- I help facilitate a rapidly growing team of almost thirty data scientists and engineers, across three countries
- Projects include surge pricing, smart allocation, anomaly detection, recommendation systems and more

Jul '16–Dec '16
BLOCKCHAIN, *Cohort Member*, Entrepreneur First, Singapore
- Intensive entrepreneurial bootcamp. Learnt a ton about customer validation, product iteration, rapid development. Also had loads of fun

Jan '16–Jan '17
DATA SCIENCE TEACHING, *Data Science Instructor*, General Assembly, Singapore
- Taught part-time data science to dozens of brilliant adult professionals alongside two teaching assistants
- Official Net Promoter Score of 90 (Beyond "Excellent")
- Topics included:K-Nearest Neighbours, Naïve Bayes, Regularisation, Logistic Regression, K-Means Clustering, Ensemble Techniques, Decision Trees and Random Forests, SVMs, Dimensionality Reduction, Recommendation Systems, Database Technologies, Network Analysis

May '15–May '16
CLIENT & BIG DATA, *Senior Optimisation Specialist & Data Scientist*, TripAdvisor, Singapore
- Key role in designing and developing an algorithm from scratch that made more than 5 million auction bids a day, accounting for approx. US$50 million of revenue a year
- Highly technical client-facing role. Worked in small distributed team on some of the toughest data and auction related challenges at TripAdvisor
- Optimised clients' bidding strategies on the advertising auction. Designed, implemented and maintained scalable big data infrastructure

April '15
PROJECT CONTRACT, *Data Engineer*, Nugit, Singapore
- Built an NLP agent on Slack that could respond to plain-English user queries, interactively. "Nugbot" would parse natural language, issue complex asynchronous API requests, and respond appropriately

Jun–Sep '14
BIG DATA, *Data Scientist*, VISA Labs, Singapore
- Helped maintain a pipeline of prototypes leveraging emerging technologies. Hands-on experience with major big data tools ranging from Spark to d3.js visualisation
- Worked in a team of almost exclusively PhDs, from whom I learnt tremendous amounts
- Planned and ran daily analytics on terabytes of data

Sep–Mar '14
CONVEX OPTIMISATION, *Programmer*, Stanford Engineering
- Had the honour of working under Prof. Stephen Boyd, contributing to the development of a python version of the 'cvx' convex optimisation library

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github.com/misrab