

## Saubhik Mukherjee

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**phone:** +81 070 1594 0101

**date of birth:** 15 June 1993

**Objective** Software engineer with experience in ML Python stack. Also interested in system development, web development, development ops.

**Experience** **Engineer** Jan '19 - present  
*Solutions, AlpacaJapan Tokyo, Japan*

Software development of machine learning systems & production systems.

**Data Scientist** Jun '17 - Dec '18  
*Pricing, Anheuser-Busch InBev Bangalore, India*

Responsibilities included automating modelling pipelines, building dashboards, Linux system administration.

- Designed optimization models to find optimal pricing strategy, using parallelized non-linear optimization techniques in Python and R
- Built a simulation tool in RShiny as a dashboard for pricing studies for different countries
- Used nested multinomial logit models and other Hierarchical Bayesian mixed models to model market demand for beer SKUs
- Built a recommendation system which combined the region-specific demand models into a country-wide demand model

**Education** **Post Graduate Program (Software Development)** Dec '17 - Dec '18  
*International Institute of Information Technology Bangalore, India*  
*Topics:* algorithms, data structures, OOP in Java, software design, javascript, web development with ReactJS, SpringMVC, Hibernate, PostgreSQL.

**Master of Science (Quantitative Economics)** Jul '15 - Jun '17  
*Indian Statistical Institute Calcutta, India*  
*Topics:* micro-economics, game theory, computational bayesian statistics, optimization techniques, econometrics.

**Bachelor of Science (Mathematics & Computer Science)** Aug '12 - Jul '15  
*Chennai Mathematical Institute Chennai, India*  
*Topics:* linear algebra, calculus, discrete math, probability theory, algorithm design, theory of computation, programming language concepts, logic.

**High School** May '11  
*Bharatiya Vidya Bhavan Calcutta, India*

- 94.17% in Senior School Certificate Examination (Central Board of Secondary Education), 2011 (12th standard), with 100% in mathematics.
- 93.5% in Secondary School Examination (Central Board of Secondary Education), 2009 (10th standard), with 100% in mathematics.

**Massive Open  
Online Courses  
(MOOCs)**

**Deep Learning Specialization**  
*deeplearning.ai*

*May '18 - Jul '18*

**Technologies**

- **Interpreted languages:** Python, JavaScript, R
- **Compiled languages:** Java, C++
- **Environment:** Linux, macOS

**Recent  
Achievements**

- 2018** Top performance in **OpenHack Machine Learning** by Microsoft. Also, winner of several AB-InBev internal hackathons focussing on Machine Learning.
- 2017** Awarded **Innovation Impact Award** from AB-InBev for developing Game Theory & Optimization capabilities.
- 2016** Winner (second runner-up) of **Capital One Business Case Study Competition** in Analytics, among student teams of ISI.
- 2015** Selected for **ACM-ICPC** (Inter Collegiate Programming Contest) 2015 Asia Pacific Regionals.

**Languages**

English (TOEFL: 108/120)