BHASKAR DAS

DATA SCIENTIST AND RESEARCHER

Summary

A Research professional with experience in working on Machine Learning, Data Science, Cloud Computing, Internet of Things (IoT), Vehicular Ad Hoc Networks, and Cooperative Game Theory. I have a bachelor, master, and doctorate in computer science which makes me highly competitive to work in an environment where I can resolve both scientific and technical issues, capable of completing the task in time, can handle multiple projects and develop mathematical models with efficient programming skill. Following a quantitative background, I decided to move to professional Data Science, looking for ambitious challenges, and exciting career ahead.

Employment

Université de Moncton — Département d'informatique, Faculté des sciences, Université de Moncton, Moncton, Canada
Postdoctoral Research Fellow — Oct. 2017 to Dec. 2018

I have developed a real-time context-aware learning system for mobile devices such as smartphones which incorporates knowledge extraction, data streaming, and real-time learning, all the while minimizing power consumption. I have worked on cloud-assisted learning solutions using Firebase in mobile devices with limited computational capabilities while providing better accuracy. I have co-supervised several graduates and undergraduates including international students. I have managed several research projects including NSERC, NBIF.

National Tsing Hua University — Department of Computer Science, National Tsing Hua University, Hsinchu, Taiwan, 300
Postdoctoral Research Fellow — July 2016 to Sept. 2017

I have optimized the power consumption of a mobile device from the shakiness of the device. The model keeps the user experience unaltered even though it reduced the CPU utilization of the mobile device from the shakiness data and monitors

Projects

Home Loan Credibility Assessment — 2019 to 2019

Mainstream banks and financial institutions check traditional credit score models, which include demographic characteristics, historical payment data, credit bureau data and application data, to determine repayment success. However, many unbanked individuals do not have sufficient credit scores due to their past mistakes of unavoidable circumstances. Therefore, they have to deal with unconventional means such as loan sharks when borrowing money. Moreover, most of these individuals are hard-working and should get a chance to borrow money safely. It is important to identify these individuals from the financial records to provide a positive and safe borrowing experience.
The primary object of this project is to build a model from the financial data to predict the likelihood that an applicant will experience difficulty in repaying their loans. The output of the proposed model is the probability which determines an applicant in terms of having at least one late payment when repaying their loan.

New York City taxi fare prediction — 2019 to Current

In this project, we will predict the fare amount (inclusive of tolls) for a taxi ride in New York City, given the pickup and dropoff locations. The price estimation based on the distance between the pickup and dropoff locations results in an RMSE of $5-$8. The proposed Machine Learning model should obtain better results than the price estimation based on the distance between two points.

Awards

Govt. of India · UGC Fellowship — 2011

Council of Scientific and Industrial Research (CSIR), Govt. of India · Full Travel Grant Award — 2013
Full Travel Grant Award for IGARSS-2013, Melbourne, Australia from 21-26 July 2013.

IEEE IGARSS-2013 · IEEE IGARSS-2013 Travel Grant Award — 2013
IEEE IGARSS-2013 Travel Grant Award of USD1500 for IGARSS-2013

Australian Workers' Union (AWU) · Australian Workers' Union (AWU) sponsorship — 2013
Australian Workers' Union (AWU) sponsorship for IGARSS-2013.

Patent Applied For

Invention Title · Dynamic Display Adjustment Based on Stillness of Device
Inventor: Chung-Ta King, Bhaskar Das

Contact

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BhaskarCS

Education

Visva-Bharati University and Indian Institute of Technology, Kharagpur — 2011 to 2016
Ph.D. Computer Science 2016
Joint supervision from Department of Computer Science and Engineering, Indian Institute of Technology, Kharagpur, India and Department of Computer and System Sciences, Visva-Bharati University, Shantiniketan

Springboard — 2019 to Current
Data Science

Skills

MACHINE LEARNING
classification
regression
clustering
feature engineering

SOFTWARE AND PROGRAMMING LANGUAGES
Python (scikit-learn, numpy, scipy, pandas)
SQL
Linux
Oracle
Microsoft Excel
LaTeX
Android
Matlab