KALYAN BHATTACHARJEE

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Data Scientist | Machine Learning Engineer

Data-driven, action-oriented solutions to challenging business problems

Business-minded aspiring data scientist with demonstrated expertise in machine learning and optimization and ability to deliver valuable insights via data analytics and advanced data-driven methods. Strong math background and experience in data analysis, machine learning, and statistics. Passionate about explaining data science to non-technical business audience.

EXPERTISE

- Data and Quantitative Analysis
- Predictive Modeling
- Data-Driven Problem Solving
- Optimization

- Data Mining and Visualization Tools
- Machine Learning Algorithms
- Statistical Analysis
- Research, Reports and Forecasts

PROFESSIONAL EXPERIENCE

CANON INFORMATION RESEARCH SYSTEMS. (CiSRA)

Machine Learning Research Intern, 2017 to Present

Designing optimized deep neural network for action understanding from videos.

- → Developed intricate algorithms based on deep-dive statistical analysis and machine learning that were used to optimize DNN for video understanding.
- → Analyzed and processed complex video data sets using analytics tools.
- → Implemented meta-learning systems in the context of DNNs to reach higher convergence.

Quantifiable results:

- Boosting performance of DNN by **30%** for complex benchmarks.
- Contributed to CiSRA's codebase and presented results within Canon audience from Canon Inc.
- Contributed to this year's project plan funded by stakeholders and customers.

THE UNIVERSITY OF NEW SOUTH WALES. (ADFA)

Research Assistant, 2015 to 2017

Develop efficient algorithm to tackle computationally expensive optimization problems.

- → Developed complex frameworks to deal with surrogate assisted and multi-fidelity approaches.
- → Analyzed and processed large data sets to find underlying relationship using state of the art methods.

Quantifiable results:

- Boosting performance of existing approaches by 60% using surrogates.
- Frameworks are being downloaded and used worldwide.
- Published in several top journal and conference outlets and delivered several talks worldwide.
- Attracted several domestic and international funding to travel and collaborate with well-known researchers from USA, UK, China and Japan.

Teaching Appointments: Tutored first year undergraduate defense students design optimization and CATIA (ZEIT 1501) in S2-2016 at UNSW Canberra at ADFA.

EDUCATION

THE UNIVERSITY OF NEW SOUTH WALES, CANBERRA | **Ph.D. in Computer Science** (ONGOING) | **M.Tech,** IIT KHARAGPUR | **B.Tech,** IIT KHARAGPUR

OF NOTE

Data Analytics/Machine Learning Tools/Languages: TensorFlow, Keras, Sonnet, Theano, CUDA, GPU, R, Python, MATLAB, SQL (ongoing), Hadoop (ongoing), C++, Microsoft Office, LaTeX

Publications and Presentations: Available at Google Scholar.