Konark Jain

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Portfolio: http://konqr.github.io

EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY, GUWAHATI
BTech in Electronics and Electrical Engineering with Minor in Mathematics
Expected Apr 2020 | Guwahati, India
Major GPA: 8.56
Minor GPA: 8.31

MVN SCHOOL, ARAVALI HILLS
Grad. May 2016| Faridabad, India
Senior Secondary Result: 93.0%
High School Grade: 10.0

COURSEWORK

UNDERGRADUATE
Mathematical Statistics
Scientific Computing
Advanced Linear Algebra
Pattern Recognition & Machine Learning
Probability and Random Processes
Advanced Control Systems
Modern Algebra

MOOCS
Machine Learning
Deep Learning
Convolutional Neural Networks
Natural Language Processing
Bayesian Methods for Machine Learning
Data Structures and Algorithms
Reinforcement Learning

SKILLS

Programming Languages:
Python • C++ • MATLAB
Python Libraries:
Tensorflow • Keras • PyTorch • Pandas
Web Technology:
HTML • CSS
Miscellaneous:
Android Programming • LaTeX • MySQL
Operating Systems:
Linux • Windows

EXPERIENCE

JP MORGAN & CHASE | Quantitative Research Intern
May 19 - Jul 19 | Mumbai, India
- Worked on topics of Machine Learning with outlier handling for Market Risk Prediction as a part of the Market Risk team.
- Developed various regression algorithms to estimate and replace very expensive services required by the firm for risk calculation in Commodities LOB.

THE UNIVERSITY OF SYDNEY | Research Intern
May 18 - Jul 18 | Sydney, Australia
- Developed algorithm for Parallel Tempering on Bayesian Neural Nets and implemented it with multi-threading cutting down the running time to half.
- Run time was then reduced by another factor of two by using surrogate assisted optimization.

DRDO | Research Intern
Dec 17 - Jan 17 | New Delhi, India
- Developed a Convolutional Neural Network architecture for unconstrained face recognition on multiple datasets for real time applications.
- Performance of the network developed in Tensorflow matched the state of the art methods achieving close to perfect accuracy on some datasets.

DELHI TECHNOLOGICAL UNIVERSITY | Research Intern
May 17 - Jul 17 | New Delhi, India
- Classification of 20 activities could be achieved with record 94.22% accuracy for Human Activity Recognition for RBG-D video sequences.
- Developed a novel "Movement Polygon Mapping" technique of dimensionality reduction of 4D RGBD Video Sequences to a 1D vector.

PUBLICATIONS

• R. Chandra, K. Jain, R. Deo, S. Cripps, **"Langevin-gradient parallel tempering for Bayesian neural learning"** , in Neurocomputing Journal 2019

• R. Chandra, K. Jain, A. Kapoor, **"Surrogate-assisted parallel tempering for Bayesian neural learning"** , in IEEE TNNLS (Under Review)

• D.K. Vishwakarma and K. Jain, **"Human Activity Recognition using Movement Polygon in 3-D Posture Data"** , in IEEE Transactions on Human-Machine Systems (Under Review)

POSITIONS OF RESPONSIBILITY

IITG.AI | Co-Founder
Apr 18 – Present | Guwahati, India
IITG.ai is the AI community of IIT Guwahati for nurturing talent among the students and to establish collaborative projects with experts all around the world.

CEPSTRUM | General Secretary
July 19 - Present | Guwahati, India
CEPSTRUM is the student body of the Department of EEE, IITG. My duties include spearheading a 40 member team to perform various departmental activities.

CODING CLUB IITG | Machine Learning Head
Apr 18 - Apr 19 | Guwahati, India
Supervision of the projects undertaken by the coding club of IITG in the fields of Machine Learning, Deep Learning and Artificial Intelligence.