

Keerti Anand

304 Research Dr, Duke University
Durham, NC 27708

keerti.anand.iitky13@gmail.com
www.linkedin.com/in/keerti-anand

EDUCATION	Duke University , Durham NC [Aug '17 - May '22] <i>PhD</i> , Computer Sciences: Algorithms/Machine Learning CGPA: 3.9/4.0
	Indian Institute of Technology(IIT) Kanpur [July '13 - Dec '16] <i>Bachelor of Technology (BTech)</i> , Computer Science and Engineering CPI: 9.3/10.0
INTERESTS	• Optimization • Prediction Modelling • Algorithm Design • Machine Learning • AI
ACADEMIC HONORS	• Common Admission Test (CAT) 99.94 percentile (2017) • All India Rank 209 in Joint Entrance Examination (IIT JEE) (2013) • Indian National Physics Olympiad (2012) • KVPY Fellowship (2012) • National Talent Search Scholarship (2009)
WORK EXPERIENCE	Summer Intern: Aarohan Holdings and Advisors, India [Summer '18] • Forecasting various Equity/Bond Market Indices using Fb Prophet/ARIMA • Designed a Risk Management Dashboard in Python to better inform the Firm's clients Visiting Researcher: Tel Aviv University, Israel [Spring '17] • Worked on developing new drug targets for Neuro-degenerative ailments like Alzheimer's and Huntington's Disease • Modelled the drug targets as nodes in Protein-Protein Interaction(PPI) Networks, using Network Propagation Algorithms to find suitable sites Summer Intern: Goldman Sachs, India [Summer '16] • Worked in the Securities Division Strats Team on the Risk-incorporated pricing for Exotic Derivatives and implemented the new pricing model in Slang • Involved learning Stochastic Calculus and modelling risk via Hazard Models
SELECTED PUBLICATIONS	• Customizing ML Predictions for Online Algorithms [ICML'20] • A Regression Approach to Learning-Augmented Online Algorithms [NeurIPS'21]
SELECTED PROJECTS	• Decision Making at Scale: Analysis of scalable service allocation strategies for low-latency mobile communications with an emphasis on fairness • Compiler Design: Designing an end-to-end Python to MIPS compiler • Visual Odometry: Determining the configuration of a 2-DOF robotic arm from captured Images using techniques such as Isomap, kNN and PCA • Prediction Models: Using ensemble methods such as Random Forests, and SVM in predicting the cost of AirBNB rentals in the city of Buenos Aires • Big Data: Handling massive amounts of order-flow and trade book data; creating suitable features to predict future market volatility
RELEVANT COURSES	• Computer Science: Approximation Algorithms, Compiler Design, Data Structures, Randomized Algorithms, Operating Systems, Machine Learning, Deep Learning • Applied Mathematics: Linear Algebra, Probability and Statistics, Discrete Mathematics, Computational Economics, Chaos Theory, Financial Derivatives
TECHNICAL SKILLS	Programming Languages : Python, C++, C, Bash, AWK Software/Utilities : MATLAB, Git, Verilog, L ^A T _E X, Vim, SQL, Tensorflow, Pandas
OTHER ACTIVITIES	• Reviewer for ICML 2021, and NeurIPS 2021 • Algorithmic Trading: Developing trading strategies at Quantopian • Poker: Finished in the money during University level Poker Tournaments • Community Service for NSS, India • Academic Mentor, Duke Athletics: Mentoring/Tutoring student-athletes at Duke