RushabMunot

Computer and Information Science
UNIVERSITY OF PENNSYLVANIA

Email: rushab@cis.upenn.edu   Homepage: home.iitk.ac.in/ rushab   LinkedIn: ☒

EXPERIENCE

GOLDMAN SACHS (RISK) | Credit Risk Modeling
Summer 2017
- Modeled Credit Default Swaps during Crises periods
- Extrapolated the findings to Emerging Markets
- Handled 3 critical fixes in models in production
- Offered a full time position at Bengaluru

RESEARCH INTERN | Prof. V Gogate
Summer 2016 | University of Texas at Dallas
- Analyzed a regularization technique that sets constraints on model parameters
- Achieved 2-3% higher accuracy than L2 regularization on Iris, Email classification, etc. datasets

RESEARCH

ANALYSIS OF SPEECH RECOGNITION API'S | Prof. Ani Nenkova
June 2017 - Present | University of Pennsylvania
- Analyzed performance across emotions, gender, race, ethnicity and age groups on the CREMA-D corpus
- _____

MODELING BEHAVIOR IN THE PUBLIC GOODS GAME | Prof. Nisheeth Srivastava
June 2017 – Present | IIT Kanpur
- Modeling behavior in a public goods game
- Analyzing individual behavior in a social setting

PROBABILISTIC MODELS FOR WORD (SENSE) REPRESENTATION | Prof. Piyush Rai and Prof. Purushottam Kar
October 2017 – May 2018 | IIT Kanpur
- Proposed a generative model for word sense vectors
- Senses modeled as Gaussian Mixtures over fundamental 'concepts', Words are mixtures over their senses
- Complete inference modeled using Gibbs sampling

HIERARCHICAL WORD SENSE DISAMBIGUATION | Prof. Harish Karnick
Jan – Nov 2017 | IIT Kanpur
- Developed a hierarchical model for sense disambiguation based on WordNet sense keys
- Every node has an LSTM encoder-decoder with a shared encoder across words with a word dependent context independent attention mechanism

POSITIONS

2015-16	Vice President	BloodConnect - Kanpur City
2015-16	Secretary	Fine Arts Club, IIT Kanpur

EDUCATION

UNIVERSITY OF PENNSYLVANIA
MS in Computer and Information Science

INDIAN INSTITUTE OF TECHNOLOGY, KANPUR
B.Tech in Computer Science, 9.25 / 10.0

TEACHING EXPERIENCE

UNIVERSITY OF PENNSYLVANIA
Fall 2018   **Teaching Assistant**, Linear Algebra and Optimization

IIT KANPUR
Spring 2018   **Teaching Assistant**, Data Structures and algorithms
Fall 2017   **Student Instructor**, Introduction to Computing
Fall 2017   **Course Mentor**, Introducction to Machine Learning

COURSES

WHARTON
Fixed Income Securities$^{\#}$ #: Ongoing

ARTIFICIAL INTELLIGENCE
Introduction to ML • Natural Language Processing • Probabilistic Machine Learning • Learning Theory • Algorithmic Game Theory • Computational Cognitive Science • Advanced Machine Learning$^{\#}$ #: Ongoing

COMPUTER SCIENCE AND MATHEMATICS
Data Structures• Algorithms •Computer Organization • Operating Systems • Compiler Design •Database Management Systems • Linear Programming and Spectral Graph Theory • Numerical Methods • Probability and Statistics

PHILOSOPHY
Introduction to Philosophy • Philosophical Logic • Moral Thinking • Philosophy of Science

AWARDS

2017 Academic Excellence Award by IIT Kanpur
2016 Academic Excellence Award by IIT Kanpur

INTERESTS

Machine Learning • Natural Language Processing • Computational Finance • Risk Management • Data Analytics

SKILLS

Python • R • PyTorch • Matlab •C++ • Tensorflow • LaTeX• SQL • Assembly