Aayush Yadav

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website

Education

Rutgers University • Master of Science
AUG 2019 - (EXPECTED) MAY 2021, CAMDEN NJ

Studying Computer Science with a concentration in Scientific Computing at **Rutgers University – Camden**.

GPA: 4.0

University of Pune • Bachelor of Engineering
JUN 2013 - JUL 2017, INDIA

Studied Computer Science & Engineering at the **Army Institute of Technology**.

Graduated with a first class with distinction.

Experience

Senator Walter Rand Institute for Public Affairs •
Research Project Assistant
NOV 2019 - PRESENT, CAMDEN

Designing probabilistic model(s) for generating actionable insights into community health outcomes data.

Assessing shortfalls in the South Jersey healthcare system during the COVID-19 pandemic using epidemiological modeling techniques.[1]

ParallelDots, Inc. • Associate Data Scientist
JUL 2018 - JUL 2019, GURGAON

Researched and developed state-of-the-art text and natural language solutions for the ParallelDots AI API. Worked on problems in domain adaptation and transfer learning techniques in NLP, and on Bayesian machine learning.

Indian Institute of Technology, Delhi • Research Intern
AUG 2017 - MAY 2018, NEW DELHI

Studied the generalisation properties of deep neural networks, co-wrote a study paper and assisted with one academic paper.

Edelweiss Financial Services • Data Science Intern
JUN 2016 - JUL 2016, MUMBAI

Designed and developed a model to predict propensity of claims in new insurance policies for the Risk Analytics team at *Edelweiss-Tokio Life Insurance*. Model achieved an AUC of 0.89 on a dataset with extreme class imbalance.

Research

Timing County Hospital Bed Shortfall during COVID-19[2]
Reports: Senator Walter Rand Institute for Public Affairs

Regional Health System Shortfalls with a Novel COVID-19 Model[3][4]
Reports: Senator Walter Rand Institute for Public Affairs

Effects of regularization on model complexities of neural networks[5]
M. Sharma, A. Yadav, S. Soman, Jayadeva
arXiv:1901.11458

Camera2Caption: A Real-Time Image Caption Generator[6]
P. Mathur, A. Gill, A. Yadav, A. Mishra, N.K. Bansode
IEEE International Conference on Computational Intelligence in Data Science (ICCIDS 2017)

Project Highlights

FitFast: Quickly fine-tune language models for your downstream NLP tasks[7]
AUG 2018 - NOV 2018

Retrogram: Retrofitted (domain-adapted) word vectors with Word2Vec skip-gram model[8]
OCT 2018

Camera2Caption: A Real-time Image Caption Generator[9]
NOV 2016 - MAY 2017

[more]

Outreach & Miscellanea

Center for Learning and Student Success • Tutor
NOV 2019 - JAN 2019, CAMDEN

Providing course specific tutoring in Statistics, Calculus and Computer Science to undergraduate students at Rutgers University – Camden.

Teach for India • Education Volunteer
JUL 2017 - SEP 2017, NEW DELHI

Designed and taught a Computer Literacy course to standard 8th and 9th students in Jahangirpuri area, North Delhi.