Raghav Gupta

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EDUCATION

UNIVERSITY OF MASSACHUSETTS AMHERST College of Information and Computer Sciences
BS Computer Science, BS Mathematics (Statistics concentration) Sep 2018 - May 2022
- Cumulative GPA: 3.9 / 4.0, Dean's List x4
- Coursework: Artificial Intelligence • Predictive Analytics • Algorithms + Honors Colloquium • Numerical Computing
  • Operating Systems • Data Structures • Statistics I + II • Advance Multivariate Calculus
- Chancellor's Award: $14000 / year
- ACM Machine Learning Club

EXPERIENCE

EVALUESERVE | Machine Learning Intern Jun 2019 – Aug 2019
- Employed data analytics and business intelligence software including Tableau, Power BI, UiPath for a global professional services provider offering research, analytics, and data management services
- Scraped the data of Indians attending the world's most prestigious universities using Python with selenium and Pandas
- Utilized k-means clustering in R to determine the most important factors taken into consideration for admission

UNIVERSITY OF MASSACHUSETTS AMHERST

Teaching Assistant | College of Information & Computer Sciences Jan 2020 - Present
- Assisted over 200 students in Computer Systems Principles; currently in charge of Reasoning Under Uncertainty
- Organize class discussion sections to reinforce concepts learnt in class, help with projects and review before examinations
- Assist students with coursework in class, one-on-one sessions and discussion boards; done remotely during the COVID-19 pandemic

Teaching Assistant | Department of Mathematics and Statistics Sep 2019 – Present
- Assist professor in class of over 270 students
- Conduct office hours, review sessions to clear doubts; done remotely during the COVID-19 pandemic

MULTISOFT INFOCOM | Intern Jul 2018 – Aug 2018
- Managed hardware assembly and software installation for a startup providing Information Technology services
- Oversaw inventory and shipments

KPMG | Intern May 2017 – Jun 2017
- Researched the requests and concerns of clients relating to IT advisory and cybersecurity

SELECTED PROJECTS

Spam classifier (MATLAB)
- Built a support vector machine with a Gaussian kernel in to detect spam emails
- Utilized techniques like word-stemming, normalization and lower-casing to pre-process emails
- Trained the model using the most frequently-occurring words as features. Achieved accuracy of over 98%

Recommender Systems for Movies (Python)
- Built a collaborative filtering algorithm to recommend movies to a user using scipy, matplotlib and numpy
- Used a data set with approximatelty 1000 users and 1500 movies to train model

Math Bot (C)
- Implemented a network client that communicates to a remote server in the C programming language
- Established a TCP connection using the Linux socket API to solve a series of Math problems

SKILLS

Programming: Python • R • SQL • Java • C • LaTeX • MATLAB • C++ • JavaScript • HTML • CSS

Libraries: TensorFlow • numpy • Pandas • scipy • selenium • Jupyter • dplyr • magrittr

Frameworks: Git • UNIX/Linux • PowerBI • UiPath • Node.js • Express.js • Tableau