

Rohit Kumar

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Objective

Seeking master's program in Computer Science specializing in Data Science and Artificial Intelligence

Education

University of Illinois at Urbana-Champaign, Urbana, IL (August 2016 to May 2021)

B.S. in Computer Engineering, B.S. in Statistics,

GPA: 3.1/4.0

Coursework

Data Structures, Algorithms, Artificial Intelligence, Methods of Applied Statistics, Statistics and Probability I & II, Statistical Analysis, Statistical Computing, Applied Bayesian Analysis, Data Visualization, Artificial Intelligence, Applied Linear Regression, Database Systems, Statistical Data Management

Experience

Data Science Internship

May 2020 to July 2020

Staging Read Head Design, Western Digital, San Jose, CA

- Implemented JMP modeling for wafer data including data visualization, stepwise linear regression, capability Analysis
- Automated power point using JMP modeling and python-pptx

Data Science Internship

September 2019 to March 2020

Center of Innovation in Teaching & Learning (CITL), University of Illinois at Urbana-Champaign

- Designed and Implemented Splunk Dashboard visualizing Moodle course data
- Designed and Implemented RShiny Dashboard visualizing study abroad survey data, including questions about finance, course quality, and overall experience

Data Science Internship

May 2019 to August 2019

IoT Labs, Cisco Systems, San Jose, CA

- Using Amazon Web Services, provisioned EC2 Instance and set up Network Security Groups
- Using Microsoft Azure, created IOT Central application and UI Dashboard to visualize device data
- Set up Mosquitto MQTT broker on AWS and wrote python script routing JSON data from device server to Azure

Projects

Loneliness Data Science Project

August 2020 to current

- Designed RShiny dashboard for analyzing factors correlating with loneliness using background information, daily routine, personal preferences and other attributes using data crowdsourced through a google form survey
- Performed significance testing, data visualization and text analysis

College Major Prediction

August 2018 to September 2018

- Created model using logistic regression and AIC to predict college majors using background information, personality, and other attributes
- Results visualized in Tableau, HTML, CSS, Javascript, and D3.js

Connect 4 Artificial Intelligence

April 2019

- Using System Verilog and C, implemented multiplayer Connect-4 game with a VGA monitor, FPGA system-on-chip memory and keyboard interface including music, gravity simulation, and CPU simulated by Min-max algorithm

Extracurricular Activities

Pledge Project Coordinator at Alpha Phi Omega (2020-present)

Social Media Chair at Hindu YUVA (2020-present)

AMHS Cross Country Coach's Award (2016), Most Improved (2015)

VP of A Novel Idea Book Club (2019-2020)