Arshia Arya

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LINKS

LinkedIn:// arshiaarya
Twitter:// @AryaArshia
Github:// Arshiaarya

COURSEWORK

COMPUTER SCIENCE

Neural Networks
Data Mining
Machine Learning
Probability and Statistics
Data Structures and Algorithms
Database Management Systems
Object Oriented Programming
(Teaching Asst)

ECONOMICS

Applied Econometrics
Economic Environment of Business
(Teaching Asst)
Principles Of Economics
(Teaching Asst)
Game Theory
Mathematical and Statistical Inferences

AREAS OF EXPERTISE

- Causal Inference
- Econometric Analysis
- Machine Learning models
- Linear Algebra
- Neural Networks
- Probability models

SKILLS

Programming Languages:
Python • C++ • C • MySql • STATA • R • JAVA
Frameworks:
AWS EC2, S3, Vertica • PyTorch • Tensorflow
Tools:
Github • Jira• • Eclipse

VOLUNTEERING

BITS GOA WOMEN IN TECH
• Founding Member
Organised a community for technical collaboration

EDUCATION

BITS PILANI, GOA CAMPUS

B.E in Computer Science
M.Sc. in Economics (Dept.Rank 2)
May 2021 | Goa, India
Cum. GPA: 9.17 / 10.0

EXPERIENCE

INTUIT INC. | Data Engineering Intern

May 2020 - Ongoing | BITS Pilani, Goa

- Tested an open source tool for data quality testing in business use cases
- Integrated the tool into existing cloud platforms and data pipelines to be used

SENSEI TECHNOLOGIES | Software Engineering Intern

May 2018 – July 2018 | Bangalore, India

- Used relational databases to create a stock screener platform which lists financial details of companies listed in various stock exchanges.

RESEARCH PROJECTS

TCS INNOVATION LABS | Student Researcher under Prof. Ashwin Srinivasan

Jan 2020 – Present | BITS Pilani, Goa

- Created custom datasets using feature engineering using domain knowledge to carry out experiments.
- Found interpretable model from the original model using a novel in house Iterative Causal Attribution algorithm on Deep Relational Machines.

CONTRIBUTION TO THE DOWHY LIBRARY | Open Source Contributor

Feb 2020 | BITS Pilani, Goa

- Added an example notebook studying the binary treatment outcomes on the Twins data-set studying the mortality of twins in the US from 1989-1991
- Used linear regression and propensity score matching techniques to estimate the Average Treatment Effect and compared the two methods

HETEROGENEOUS TREATMENT EFFECTS | Research Assistant

August 2019 – December 2019 | BITS Pilani, Goa

- Used Conditional Average Treatment effects to analyse parents income and the semi-synthetic data-set to identify weak instruments

SIMULATION OF NEURAL NETWORKS | Student team member

March 2020 | BITS Pilani, Goa

- Simulated logic gates and Hot and Cold Perceiver Networks by customising weights
- Created a Graphical User Interface using PyQt framework in completion of course assignment under Dr.Basabdatta Bhattacharya.

SCHOLASTIC ACHIEVEMENTS

• Institute Merit Scholar: Recipient of the merit scholarship in the form of a waiver of 40% of the tuition fees, awarded to top 2% students of the Institute for 6 consecutive semesters.