Vishwanath E.V.S

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EDUCATION

The University of Chicago | Chicago, IL,   2019
Master's in Public Policy
- ▪ **Selected Coursework:** Statistics, Machine Learning, NLP, GIS, Econometrics

Amrita University | Bengaluru, India,   2014
Bachelor's in Technology, Electrical Engineering

ACADEMIC PROJECTS AND CAMPUS WORK:

Benchmarking Automatic Data Cleaning on Neural Network Performance
- Implemented a NIPS 2017 presented automated data cleaner to evaluate impact on Keras Model performance
- Built a Keras testbench to iterate over combinations of hyperparameters and capture performance metrics

DetoxiPy
- Studied how word-embeddings based toxicity classifiers can register false positives in cases where the groups that are the targets of online toxicity are mentioned in benign contexts

Habitual Traffic Violator Prediction
- Worked with the Chicago Dept. Of Transportation to identify driver's risk of severe road traffic crashes based on prior traffic violation history
- Built a classifier to predict crash risk using features constructed from prior traffic violations

Research Assistant – Affordable Housing Policy Labs
- Cleaned housing-parcel data and built a web-scraper to extract data from the Cook County Recorder of Deeds

Teaching Assistant – Cost Benefit Analysis

WORK EXPERIENCE

Harris School of Public Policy | Chicago, United States of America   Aug 2019 – June 2023
Pre-doctoral Fellow
- ▪ Built pipelines to process granular, large scale weather data to understand impact of weather on micro-patterns in the behavior of a location's population
- ▪ Built pipelines to process granular, individual level digital trace data to study differences between public and private behaviour
- ▪ Ran and analysed regressions studying a population's cultural behavior in response to variation in exposure to media, weather patterns and cash transfers

Deep Dive | Mexico City, Mexico,   July 2018 – Sept 2018
Data Science Intern
- ▪ Worked with Mexico's Executive Commission for Attention to Victims (CEAV) to design a legal intelligence platform to identify patterns and common elements across cases
- ▪ Developed a heuristics-based image processing pipeline to clean documents and extract text using OCR

Indian Centre for Social Transformation | Bengaluru, India,   June 2017 – July 2017
Freelancer
- ▪ Developed heuristics for analyzing property tax payment, identified 4x revenue potential

Mu Sigma Business Solutions | Bengaluru, India,   Sept 2014 – June 2017
Internal Products Lead
- ▪ One of the leads responsible for driving an internal quality control initiative across the organization
- ▪ Led a team of 8 in developing internal company platforms to scale up forecasting solution delivery
- ▪ Led a team of 4 in creating and rolling out an internal repository of R packages to enforce coding standards and efficiency across the organization

Account Manager (Interim)
- ▪ Served as an interim account lead for a team of 12 running projects on customer churn and report building
- ▪ Recommended a BI consolidation and modernization strategy to senior client leadership

Senior Decision Scientist

- Led a team of 6 in analyzing customer care data to proactively identify customers with service issues, resulting in annual savings of 2 million USD

Decision Scientist
- Rationalized and automated workflows and business processes across three different geographies, resulting in annual savings of 1.5 million USD
- Worked with nearly 50 stakeholders from 8 different business units to rationalize client's global reporting process, reduced ~550 reports to ~200 reports

SKILLS

Programming: Advanced: Python; Proficient: R and SQL; Familiar: C#, PostGis, Stata
Frameworks: scikit-learn, PyTorch, Keras, NLTK, tidyverse, ggplot2
Tools: Excel, AWS, Hive, MS-SQL, PostgreSQL, ASP.NET, RShiny, Jekyll