

ASHUTOSH SRIVASTAVA

350 South Chauncey Avenue, Apt 7, West Lafayette, IN-47906 | 765-476-3419 | srivas48@purdue.edu | [LinkedIn](#) | [Github](#)

SUMMARY

- Applied Statistician with a thorough understanding of Mathematical and Modeling related concepts in Classical Statistics and Machine Learning
- Rich experience in Data Science consulting with professionals and researchers from an array of fields working on a wide variety of problems
- Eager to contribute to the best of my abilities in a stimulating environment engaged in solving meaningful problems

EDUCATION

- MS, Mathematical and Applied Statistics, 2020
- BS, Mechanical Engineering, 2015

WORK AND RESEARCH EXPERIENCE

Mu Sigma

Bangalore

Data Scientist

Aug 2015 - May 2017

- Designed a Sampling and Tuning band prototype module as a block within the end to end Anti-Money Laundering (AML) framework for a major US Bank with plug and play functionality in R
- Developed a Savings Engine in SAS for a leading US based Health Insurance firm to help members save on claims costs
- Led a team of 2 members responsible for collating and mapping of Advertisement(online) and Sales(offline) Data across territories in HIVE and SQL for a US Insurance giant

Statistical Consulting Services

Purdue University

Graduate Consultant

Aug 2018 - July 2019

- Worked with a PhD scholar from Forestry and Natural Resources to identify the significant drivers for subjects towards water conservation policies using Principal Components and Factor Analysis
- Used multi-way ANOVA models to identify the impact of 5 and 10 point Likert scales in estimating the difference between lactose intolerance across genders while working with [Dr. Saviano, Department of Nutrition Sciences](#)
- Implemented a complete cycle of statistical analysis, from Exploratory Data Analysis to Modeling and Inference for identifying the curiosity drivers for foreign travellers as part of project with [Dr. Tanoos, Purdue Polytechnic](#)
- Ran a Randomized Complete Block Design experiment and used ANCOVA models to study the variation in concentration levels for subjects across different levels of distraction for a client in Education Department

Superpower Team

Purdue University

Graduate Research Assistant

Aug 2019 - May 2020

- Worked with [Dr. Hennes, Department of Psychology](#) as part of Superpower team to develop simulation based power analysis modules in R for hypothesis testing methods, Linear Regression and ANOVA models
- Formulated a MCMC technique to compute the covariance matrix for linear models involving higher order interactions which resulted in our abstract getting accepted in M3 conference, 2021

Independent Study

Purdue University

Graduate Student

Jan 2018 - May 2018

- Worked with [Dr. Bhadra, Department of Statistics](#) to develop an R package allowing the user to draw samples from the posterior under the graphical horseshoe prior to estimate the precision matrix or the inverse Covariance Matrix for Multivariate Gaussian Data

MACHINE LEARNING COURSES AND SPECIALIZATIONS

- ECE 595: Machine Learning I and ECE 629: Neural Networks at Purdue University
- Completed CS 156: Learning from Data Caltech, CSS 229: Machine Learning Stanford and MIT 18.065 Matrix Methods in Data Analysis, Signal Processing and Machine Learning online
- Deep Learning Specialization on Coursera
- The complete list of certifications can be found on the LinkedIn page and my own implementations of various supervised and unsupervised algorithms is present [here](#)

TEACHING AND MENTORING EXPERIENCE

- Lab, Classroom and Project TA for STAT 350: Introduction to Statistics
- Classroom TA for STAT 420: Time Series Analysis

SOFTWARE SKILLS

- Python: OOP, scikit-learn, Numpy, Pandas, Matplotlib, Jupyter notebooks, Tensorflow and Google Colab
- R: dplyr, lme4, pwr, car, caret, glmnet, ggplot2 and designing packages
- SAS: Data Manipulation, Exploratory Data Analysis, Linear Models and Design of Experiments
- SQL