ANISH YAKKALA

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https://web.calpoly.edu/~ayakkala/index.html

OBJECTIVE

Student with strong programming skills with heavy statistics background looking for an internship in Data Science or Software Engineering for 2020 Summer.

EDUCATION

California Polytechnic State University SLO   *Sept 2017 - June 2021*

Bachelor of Science in **Statistics**
Minors in **Data Science** & **Mathematics**
Cal Poly GPA: **3.986**

Relevant Coursework: Deep Learning, Real Analysis, Design & Analysis of Algorithms, Intro to Database Systems, Object Oriented Programming, Data Structures, Multivariate Statistics, Linear Algebra II, Introduction to Data Science, Programming with R, and LaTeX.

Technical Skills: Python, R, Java, Scala, Spark, Hadoop, MySQL, Stata/IC, LaTeX, Tableau, Microsoft Excel.

Recipient of **Helen V. Sandercock Scholarship** for **"Scholastic Excellence and Good Character"**
Recipient of **Joyce Curry-Daly and James Daly Scholarship** as a **Worthy Statistics Major**
Recipient of **Herbert E. Collins Scholarship** for **Promise in Industry & Academic Excellence**
President's List 2017-2019 — University's Honor Program — BEACoN Research Program

WORK EXPERIENCE

Boeing Data Science & Analytics   Summer 2019
Data Science & Analytics Intern

- Created web applications on R to provide executives with live graphics and metrics on to solve various initiatives in Boeing's Supply Chain.
- Helped the Senior Data Scientist on the team with a Machine Learning Project to help assign Procurement Agents the most optimal item assignments. Used TensorFlow and H20.ai within Python.

Econ. Summer Research Project   Summer 2018
Researcher

- **Research Topic:** Studying how heterogeneous policy on marijuana affects the market of General & Proprietary pharmaceutical drugs. Also, studied changes in birth characteristics using CDC data after the MML legalization.
- **Big problems I solved:**
  - Created the Triple Differences in Differences Model.
  - Found the data-sets, wrote the scripts, and worked with very messy data-sets to implement Generic Drug as an indicator variable into our models and data-sets.
  - Incorporated highly important Medicaid data that was very disorganized dating from 2007 - 2011.
- Building a comprehensive database of services through Medicaid (2006-2017) using post-2012 NDC, pre-2012 NDC, State Utilization (Medicaid), & various FDA datasets. Used **Stata/IC**, **Microsoft Excel**, and **PostgreSQL**.
- Created the infrastructure for a Pilot Summer Research Program that caters to rising sophomores in OCOB.

PROJECTS

PolyRatings Shiny App   March 2019

A Shiny App that explores the thousands of reviews given to Cal Poly SLO professors using Natural Language Processing!

https://ayakkala.shinyapps.io/polyrating/

Crunchyroll Data Exploration and Machine Learning   March 2019

Introduction to Data Science Final, where Lemar Popal and I analyzed Crunchyroll. Used contemporary techniques in Machine Learning and Ensemble learning to predict an anime's rating from the text of its reviews.

https://web.calpoly.edu/~ayakkala/crunchyroll.html

Spotify Through the Ears   Jan 2019 - March 2019

Project I led as Data Science Lead @ Spec. An exploration of artist and song data using the Spotify API.

"An exploration of bops, beats, bangers, and the listeners who play them"

`http://spotify.builtbyspec.io`

Tiledriver (CSC 480 - Artificial Intelligence)   July 2018

I implemented a powerful **A* search** to quickly solve and find the optimal solutions for sliding tile puzzles (sizes up to 4x4). Then implemented a **Random-Restart Hill Climbing Algorithm** to get very close to creating the most possible complex sliding tile puzzles.

Bio Gimmickry (CSC 480 - Artificial Intelligence)   July 2018

Implemented a sophisticated local search algorithm in Python that automatically generates valid programs in Brainfuck, an esoteric programming language. Wrote a **Genetic Algorithm** that took in an array of values generated through a command written in Brainfuck and returned a solution in Brainfuck.