Anoop Panyam

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**EDUCATION**

**University of Virginia, College of Arts & Science Charlottesville, VA**

B.A. in Computer Science; B.A. in Statistics, *Mathematics Concentration* *Expected May 2021*

* **GPA:** 3.92 / 4.00
* **Honors:** UVA Dean’s List, National AP Scholar
* **Coursework:** Algorithms (CS 4110), Data Structures (CS 2150), Software Development Methods (CS 2110), Discrete Mathematics (CS 2102), Data Analysis with Python (STAT 3250), From Data to Knowledge (STAT 3080), Calculus III (MATH 2310), Ordinary Differential Equations (MATH 3250)

**PERSONAL PROJECTS & EXPERIENCE**

**Baseball and Sabermetrics:** *May 2017 – Present*

* Using Logistical Regression and Random Foresting to Predict Hall of Fame Induction Probability for MLB Pitchers
  + Used data from Lehman’s 2016 baseball database as well as manually scrapped data from baseball-reference.com to create multiple models. Optimized the random foresting model to minimize false positives with a minor power tradeoff.
* Predicting MLB Team Wins Per Season Using Clustering and Regression Models
  + Used KMeans Clustering and Ridge Regression to build various models to predict wins. Evaluated Mean Absolute Error and cross-validation to estimate model accuracy.
* Created a batter hit-prediction algorithm with ~80% accuracy
  + Scraped data from baseball-reference.com and applied decision tree algorithms to determine hitters with the highest probability of obtaining a hit in a given day.

**Software Development:** *May 2017 – Present*

* Created a GPA Planner using Java GUI frameworks and libraries
* Designed a college schedule planner using a topological sort algorithm
* Implemented an ant-colony optimization algorithm towards solving the Traveling Salesman Problem with a visual animation frame.

**Water Quality Assessments** *September 2015 – March 2018*

* Utilized sequencing data from biofilm samples to construct a relational database using a many-to-many structure
* Received recognition from the National Geological Society, and the Federal Water Quality Association

**Mathnasium** *May 2018 – August 2018*

* Tutored students in mathematics for subdisciplines ranging from Algebra to Calculus
* Worked with peers as well as children below my age to attain a grasp on a diverse working environment

**ACTIVITIES**

**Student Entrepreneurs for Economic Development (SEED)** *September 2018 – Present*

* Contributed consulting solution ideas for various socially conscious companies and international clients
* Published a solution outline on expanding modernization to alleviate food insecurity in developing countries

**Hackcville – Launch: Data Science Track** *September 2018 – Present*

* Created compelling predictive models and various applications for customer service automation and ecommerce
* Deployed neural nets, applied regression models, and consolidated extracted data into SQL database structures
* Learned D3 visualization

**SKILLS, LANGUAGES & INTERESTS**

**Skills:** Full Stack Development, Statistical Analysis, Web Scrapping, Assembly, UI, Bootstrapping, Unix Environment, Agile Development, OOP

**Languages:** Java, Python, R, C, C++, Objective C, HTML/CSS, x86 Assembly, SQL, Hadoop, Apache, JS, C#

**Interests:** Hockey, Sabermetrics, Big Data, Politics