Larosh Shaikh

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EDUCATION

New York Institute of Technology | College of Engineering & Computing Science　　　Expected Graduation: 12/24
BS. Applied and Computational Mathematics, GPA: 3.62/4.0　　　*New York, NY*
- Differential Equations, Numerical Analysis, Data Structures and Algorithms, Number Theory, Mathematical Statistics

WORK EXPERIENCE

Bright Leadership Academy　　　Sep 2023 - Pres.
Data Analyst Intern　　　*New York, NY*
- Implemented efficient data pipelines, streamlining information processing and access to critical information
- Utilized past data to create a statistical model analyzing when a student would be prepared for their test
- Implemented online test prep using GPT-3.5 to create questions for students, cutting costs by 50% in creation of prep material
- Built out reporting infrastructure using PowerBI to provide daily insights into efficiency and effectiveness of business measures

NYIT　　　Sep 2023 - Dec 2023
Undergraduate Teaching Assistant　　　*New York, NY*
- Worked as a teaching assistant for MATH 180: Calculus II helping students with assignments / graded exams
- Developed detailed notes for the class using LaTeX to increase clarity and understanding of material
- Wrote solutions manuals for homework assignments and textbook problems to ensure future quality of TA's
- Held extra office hours before exams to help students, increasing class grades on average by 11% than previous classes

Shaikh Solutions　　　Sep 2016 - May 2021
Founder　　　*New York, NY*
- Founded a tutoring company specializing in student-student test prep, providing cheap tutoring to other students across NY
- Generated $200k in revenue across six years, while establishing partnerships with local schools
- Provided high-quality tutoring services to clients, ensuring a tailored experience and streamlined paths to success for exams
- Managed and trained 12 employees, ensuring comprehensive coverage of standardized testing and subjects for any student

PROJECTS & EXPERIENCES

Starcraft Player Analytics | Python, Scikit-Learn, Pandas, Numpy
- Used Blizzard's API to produce specialized metrics such as how likely a player was a smurf, average time per rank, and highlight key fundamentals that separate high to low ranked players
- Developed a rank prediction tool based on in-game metrics to determine the current and future rank of a player given a time interval with a predictive accuracy of 87%

League of Legends Draft Predictor | Python, Scikit-Learn, Pandas, Numpy
- Web-scraped League of Legends statistics and Riot Games API data to create a draft predictor for Cloud 9, Evil Geniuses, and Golden Guardians creating draft-edge for future matches
- Used Tableau to generate analytics explaining the likelihood and reasoning behind draft predictions
- Capable of predicting drafts with an 82% accuracy including picks, bans, and non-playable champions
- Found meaningful exploits in specific player's gameplays and utilized these to create a game-plan given a champion's expected pathing

LEADERSHIP & VOLUNTEER ACTIVITIES

The Manhattan Globe | HTML & CSS, Javascript　　　**New York, NY**
Front-End Developer　　　*Sep 2019 - May 2020*
- Established the first and ongoing digital release of the Manhattan Globe
- Optimized website formatting using SEO standard practices, increasing readership of the paper by 22%
- Wrote articles about latest developments in research and technology within NYIT

TECHNICAL SKILLS

Tools and Frameworks: Git, Django, Tableau, PowerBI, Excel
Programming: Python, Julia, R, Java, LaTeX, Mathematica, Javascript, HTML & CSS