Sean McClurg

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Work Experience

JUL 2022

Queens University of Charlotte Men's Basketball | Charlotte, NC
Assistant Coach
- Built dashboard using Synergy play-type data to identify strengths and weaknesses of upcoming opponents to aid in game-planning.
- Leveraged Python web-scraping and information from Exposure Basketball to automate the creation of schedules for coaches to see as much recruitable talent as possible during the busy recruiting period.
- Served as primary scout, utilized film and analytics to develop game-plans.
- Aided the program to a better than 50% win percentage during its first two seasons as a member of NCAA Division-I. The best among transitioning teams over the last five seasons, including wins over several NCAA tournament teams; Marshall, Kennesaw State and Stetson.

MAY 2021

New Mexico State Men's Basketball | Las Cruces, NM
Director of Basketball Operations
- Leveraged multiple linear regression and data from Kenpom, Synergy and NCAA stats to predict efficiency metrics for available transfers, directly leading to several of the top ranked recruiting classes
- Worked in tandem with the 6th Man Club to organize fundraising and community outreach events.
- Played a significant role in a program that was top 3 in the country in winning percentage during my 4-year stint, including 3 conference championships, 3 NCAA tournament appearances and an historic 30-win season.

JUL 2018

New Mexico State Men's Basketball | Las Cruces, NM
Video Coordinator
- Leveraged R, Hudl SportsCode and play-by-play data to develop in-game dashboards that provided real-time information on common metrics (plus-minus, effective field-goal percentage, etc.) as well as team-specific metrics, such as the success rate of play-calls and defensive coverages.
- Utilized Python and data from various sources (Synergy, NCAA stats API, etc.) to curate and maintain website that held information on efficiency metrics on players for use in individual development.
- Assisted in scouting of upcoming opponents; with focus on primary actions and personnel tendencies.

JUL 2017

Louisiana Tech Men's Basketball | Ruston, LA
Graduate Assistant Coach
- Developed predictive linear regression models in effort to identify potential opponents for optimal schedule construction with winning percentage and NCAA NET ranking in-mind.
- Utilized Python and K-Means clustering to classify different offensive roles for individual players and identify potential holes in the roster. This model played a direct role in signing the best-performing class of new players for the 2017-18 season in Conference USA.

Education

MAY 2017

Bachelor of Science in Computational Modeling and Data Analytics
Virginia Polytechnic Institute and State University | Blacksburg, VA
- Used R and data from Synergy to develop tools (shot charts, etc.) for the Men's Basketball coaching staff to aid in individual player development and scouting.
- Leveraged Python to scrape data from various sources (Nike EYBL, Synergy) to calculate efficiency metrics and help the Men's Basketball coaches identify undervalued recruits.
- Played a significant role in the turnaround of the program, including an increase in winning percentage from 29% to 67% and the first NCAA tournament appearance in 10 seasons.
- Additional undergraduate work with the marketing team within the athletic department. Leveraged Google analytics to track interaction rates on social media to aid in exposure for Virginia Tech athletics.

Skills

Statistics & Analytics: R, Python, SQL, Tableau, Power BI, SportsCode Scripting, Excel

Film: SportsCode, Hudl, Synergy, Keemotion, Premiere, Handbrake, QuickTime, OBS