Nirav Shrimal
About Me

Recent Sports Technology (BEng) graduate from Loughborough University, UK, with proficiency in data collection, analysis, and visualization using Python, R, SQL, Power BI, and Excel. Passionate about transforming complex data into actionable insights, with a solid foundation in engineering principles.

Skills

Data Analysis & Programming
- SQL
- Python
- R (R Markdown, R Shiny)
- MATLAB

Data Visualization
- Power BI
- Excel (Pivot Tables, VLOOKUP, Power Query)

MS Office
- Microsoft Word, PowerPoint, SharePoint, Outlook

Computer Aided Design
- Siemens NX, Abaqus FEA, Solidworks

Adobe Suite
- Photoshop, Illustrator

Extra-curriculars

Music
- Music Producer & Sound Engineer (4 years experience)
- University DJing society member
- Trinity College - London Drums examinations level 1-3

Sports
- Participated in college intramural sports (soccer, basketball, tennis, table tennis)
- Assistant soccer coach through high school

Portfolio

[Click Here for my Portfolio](#)

(Scan QR code or click link)

Work Experience

Engineering Intern
PING Golf (Europe) | Aug 2022 - July 2023

- Utilized **R** to conduct comprehensive data analysis across multiple projects, including performance testing and sensor data validation. Delivered actionable insights that enhanced athlete performance via **R Markdown** reporting.
- Extracted and analyzed datasets containing 1,000,000+ rows using **SQL** queries from the Arccos sensor database, yielding valuable player performance insights that guided further analysis.
- Designed a custom **R Shiny** app to assist golfers in optimizing shot strategy, utilizing historical & comparative data.
- Conducted **ad hoc analysis** and created **visualizations** using **Excel**, supporting various projects with precise, insightful data assessments.
- Delivered clear and impactful presentations to higher management, **effectively communicating** key findings and recommendations from various projects to support informed decision-making.
- Played a critical role in **troubleshooting** and reporting technical issues with research equipment, maintaining the accuracy and reliability of ongoing data collection and analysis efforts.
- Leveraged advanced sports technology such as motion capture systems, force measurement platforms, and high-speed video analysis tools to gather and analyze data, ensuring precise and reliable performance assessments.

Research & Product Design Intern
M.S Ramaiah University of Applied Sciences | Feb 2021 - Sept 2021

- Worked closely with the engineering and product development team to conduct research and aid in the design and testing process in the manufacturing of an SEMG bionic arm
- Obtained training in CAD (Siemens NX), DFMA, GD&T, sEMG sensors, and mechanical joints & linkages

Education & Training

Loughborough University | Oct 2019 - July 2024
Bachelor of Engineering (BEng) - Sports Engineering (Technology)

Program Highlights:
- Engineering Computation
- Data Analysis in MATLAB & R
- Statistics
- ANOVA, T-Tests, Hypothesis Testing
- Advanced Computer-Aided Design (CAD)
- Data Visualization
- Product Design & Development
- Sensor Technology
- Healthcare Engineering
- Engineering Management

Inventure Academy (High School) | Jun 2014 - Mar 2018
A levels (Math, Physics, Chemistry, Computer Science, English)

- Overall: GPA 4.0 (Between 93-100%)

Phillos Institute | Mar 2019 - May 2019
Certificate Course in Graphic Design

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