SAHIL BOLAR

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EDUCATION

Bachelor of Science, Biomedical Engineering Honors   May 2023
The University of Texas at Austin
Track 3 (Computation), Scientific Computation and Data Sciences Certificate
Overall GPA: 3.99/4.00

RELEVANT EXPERIENCE

UNT-UTSA Medical Device Make-a-Thon   Feb 2021
- Designed a more effective catheter tip for traumatic brain injury patients using SOLIDWORKS Flow Simulation tool.
- Developed a business plan to obtain FDA approval and bring this device to market.
- Won first place among all teams in both the design phase and the business phase.

NFL Big Data Bowl   Jan 2021
- Quantified the ability of defenders in pass coverage with football tracking data in R and Python.
- Developed a tackling metric that improves on the current standard.

Stanford Datathon   Nov 2020
- Trained a random forest classifier to predict COVID-19 social distancing measures from demographic data.

High School Research Assistant, UT Austin   June 2018
- Investigated synthesis of molecules that play a role in neurodegenerative diseases (e.g. Alzheimer's).
- Explored drug design process with Dr. Elizabeth Ilardi.
- Collaborated with other high school students to author a presentation on our findings.

Plano Mayor's Summer Intern, Capital One   June 2017 – Aug 2017
- Developed an API to update and retrieve customer information from database for "The Big Payoff", a loan forgiveness incentivizing program that featured over $100K in cash prizes.
- Delivered presentation proposing new idea to streamline transportation efficiency on campus.
- Supervised underprivileged kids and taught them the basics of coding as part of the Coders group.
- Learned basic software development process through Agile.

Verizon App Challenge   June 2015
- Won Best in Nation for the app design Mind Glass, geared towards aiding people with dyslexia.
- Won $20K for Rice Middle School's STEM program.

EXTRACURRICULARS

Student Engineering Council	Developing data-driven solutions for marketing and analytics team.	2020 – Present
Texas Engineering World Health	Using machine learning techniques to diagnose cardiac arrhythmia.	2020 – Present
Cockrell School Cares	Promoting diversity, mental health, and inclusion in engineering.	2020 – Present
Biomedical Outreach and Leadership Team	Inspiring local elementary school students to pursue STEM via biweekly science demonstrations.	2019 – Present

SKILLS

Computer Skills: Proficient in Python, R, C++, Arduino, MOS certified in MS Word, Access, and Excel
Languages: Fluent in English and Tulu, Conversational in French, Hindi, and Kannada
Soft Skills: Motivated self-learner, Can grasp new concepts easily, Adaptable, Strong desire to help others and continually improve
Interests: Football Analytics, Music, Math, Physics